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THE

ZOOLOGICAL RECORD

VOLUME THE SEVENTY-SEVENTH

BEING

RECORDS OF ZOOLOGICAL LITERATURE

RELATING CHIEFLY TO THE YEAR

1940.

COMPILED FOR THE ZOOLOGICAL SOCIETY OF LONDON BY

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EDITED BY

MALCOLM A. SMITH

Explorate solum: sic fit certior ultra.

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PREFACE.

THIS Volume, the seventy-seventh, of the Zoological Record, deals mainly with the publications issued during 1940, but includes also those for previous years that were omitted, for various reasons, from previous Volumes.

Articles in non-European languages, unless they are accompanied by an abstract in a European language, are not included. Articles and books which have not yet reached this country, but concerning which knowledge has been obtained from other sources, are recorded in title only. They will be dealt with more fully when they can be seen by the Recorders.

The War has had a considerable effect on the output of zoological literature. The countries in Europe occupied by the Germans appear to have ceased publication entirely. The drop in the output can be seen roughly from the following figures. The total number of articles and books dealt with by the Record for 1939 was 13,501. In the present Volume it is 7,992.

Owing to the paper shortage, the thickness of the paper used in this volume has been reduced by one-twelfth; the quality is the same.

Thanks are due to those specialists who have kindly assisted with the reading of proofs or in the arrangement of the various Sections. These are Mr. J. R. le B. Tomlin (Mollusca), Dr. I. Gordon (Crustacea), Mrs. Hughes (Arachnida), Dr. C. Tate Regan (Fishes), Dr. E. Mayr and Mr. H. G. K. Molineux (Birds) and Mr. A. J. Hopwood (Mammals).

MALCOLM A. SMITH,
Editor.

Papers and Memoirs intended for this work should be addressed to "The Editor, Zoological Record, c/o The British Museum (Natural History), Cromwell Road, London, S.W.7" or "Zoological Society, Regent's Park, London, N.W.8." It is earnestly requested that in the case of separately printed copies of papers so forwarded, the original pagination be indicated.

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I. COMPREHENSIVE ZOOLOGY

ARRANGED BY

W. L. SCLATER, M.A.

This section includes works that deal with more than one branch of Zoology, or that are of general interest to Zoologists. It is, therefore, not complete in itself as regards any one subject included in it. The special records complete each subject. A few memoirs included in the special records are repeated in this division as well as the literature on the Genetics of Drosophila and some other insects used as a vehicle for these special researches.

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II. PROTOZOA

ARRANGED BY

CECIL A. HOARE, D.Sc.

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B. crucifer, rectum (Brazil) : *Zelleri. ella antunesi* forma n. *quadrata* (Cilioph Opalin.), METCALF, **433**.

B. dorbignyi, rectum (S. America) : *Zelleriella uruguayensis* forma n. *quadrata* (Cilioph. Opalin.), METCALF, **433**.

B. arenarum, rectum (S. America) : *Zelleriella uruguayensis* sp. n. (Cilioph. Opalin.), METCALF, **433**.

Ceratophris dorsata, rectum (Brazil) : *Nyctotherus untanha* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

C. americana, rectum (Brazil) : *Nyctotherus ceratophris* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

Eleutherodactylus luteolus, rectum (W. Indies) : *Protoopalina xamachana* sp. n. (Cilioph. Opalin.), METCALF, **433**.

Eupemphix nana, rectum (Brazil) : *Zelleriella dubia* sp. n. (Cilioph. Opalin.), METCALF, **433**.

Heleophryne regis, rectum (S. Africa) : *Protoopalina capensis* sp. n. (Cilioph. Opalin.), METCALF, **433**.

Hyla nebulosa, rectum (Brazil) : *Nyctotherus ruber* sp. n., *N. elegans* sp. n., *N. cinctus* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

H. faber, intestine (Brazil) : *Nyctotherus faberi* sp. n., *N. fulvus* sp. n. (Ciliata Heterotrich.), CARINI, **92** ; rectum (Brazil) : *Cepedea plata* sp. n. (Cilioph. Opalin.), METCALF, **433**.

H. rubra, caecum (Brazil) : *Nyctotherus mogyanus* sp. n., *N. tieteanus* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

H. radiana, intestine (Brazil) : *Nyctotherus fragilis* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

H. microps, rectum (Brazil) : *Nyctotherus vulgaris* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

H. leucophyllata, rectum (Brazil) : *Nyctotherus ondinae* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

H. fuscovaria, intestine (Brazil) : *Nyctotherus incertus* sp. n. (Ciliata Heterotrich.), CARINI, **92** ; rectum (Brazil) : *Cepedea ciliata* sp. n. (Cilioph. Opalin.), METCALF, **433**.

H. politaenia, rectum (Brazil) : *Nyctotherus* [spp. indet.] (Ciliata Heterotrich.), CARINI, **92**.

Kaloula picta, rectum (Philippine Is.) : *Protoopalina luzonensis* sp. n. (Cilioph. Opalin.), METCALF, **433**.

Leptobranchium (= *Megophrys*) *hasseltii*, rectum (Java) : *Cepedea hasseltii* sp. n. (Cilioph. Opalin.), METCALF, **433**.

L. pentadactylus, rectum (Brazil) : *Zelleriella ovonucleata* sp. n. (Cilioph. Opalin.), METCALF, **433**.

Leptodactylus ocellatus and *L. pentadactylus*, rectum (Brazil) : *Nyctotherus gibber* sp. n., *N. loricatus* sp. n. (Ciliata Heterotrich.), CARINI, **92**.

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L. mistaceus, intestine (Brazil): *Nyctotherus heteronucleatus* sp. n. (Ciliata Heterotrich.), CARINI, 92.

L. thyponius, intestine (Brazil): *Nyctotherus oswaldoi* sp. n. (Ciliata Heterotrich.), CARINI, 92.

Mantella baroni, rectum (Madagascar): *Opalina mantellae* sp. n. (Cilioph. Opalin.), METCALF, 433.

Microhyla leucostigma, rectum (Borneo): *Cepedea microhylae* sp. n. (Cilioph. Opalin.), METCALF, 433.

Nectophryne hosei, rectum (Borneo): *Cepedea hosei* sp. n. (Cilioph. Opalin.), METCALF, 433.

Nictixalus margaritifera, rectum (Java): *Opalina japonica javensis* subsp. n. (Cilioph. Opalin.), METCALF, 433.

Paludicola signifera, rectum (Brazil): *Nyctotherus paludicolae* sp. n. (Ciliata Heterotrich.), CARINI, 92.

Polypedates eques, rectum (Ceylon): *Opalina zeylonica* sp. n. (Cilioph. Opalin.), METCALF, 433.

P. rhodoscelis, rectum (Madagascar): *Cepedea lemuriae* sp. n. (Cilioph. Opalin.), METCALF, 433.

P. reinwardtii, rectum (Borneo): *Protoopalina borneonensis* sp. n. (Cilioph. Opalin.), METCALF, 433.

Pseudophryne bibronii, rectum (S.E. Australia): *Protoopalina bibronii* sp. n. (Cilioph. Opalin.), METCALF, 433.

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R. magna, rectum (Philippines): *Cepedea luzonensis aponensis* subsp. n. (Cilioph. Opalin.), METCALF, 433.

R. similis, rectum (Philippines): *Cepedea luzonensis* sp. n. (Cilioph. Opalin.), METCALF, 433.

R. luzonensis, rectum (Philippines): *Cepedea luzonensis* sp. n. (Cilioph. Opalin.), METCALF, 433.

R. vittigera, rectum (Philippines): *Cepedea longa macronucleata* subsp. n. (Cilioph. Opalin.), METCALF, 433.

R. glandulosa, rectum (Malay Peninsula): *Opalina ranarum orbiculata* subsp. n. (Cilioph. Opalin.) METCALF, 433.

R. temporalis, rectum (Ceylon): *Opalina ranarum orbiculata* subsp. n. (Cilioph. Opalin.), METCALF, 433.

R. labialis, rectum (Siam): *Opalina malaysiae* sp. n. (Cilioph. Opalin.), METCALF, 433.

R. macrodactyla and *R. macrodon*, rectum (Indo-China and China): *Opalina nucleolata siamensis* subsp. n. (Cilioph. Opalin.), METCALF, 433.

R. chalconota, rectum (Java): *Opalina nucleolata* sp. n. (Cilioph. Opalin.), METCALF, 433.

R. tigrina, rectum (India): *Opalina annandali* sp. n. (Cilioph. Opalin.), METCALF, 433.

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M. octodecimspinosus, gall bladder (Nova Scotia, Canada): *Myxidium myoxocephali* sp. n., *Myxoproteus myoxocephali* sp. n. (Sporoz. Myxospor.), FANTHAM, etc., **180.**

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1.—MYCETOZOA.

[Vacant.]

2.—RHIZOPODA.

(a) Amoebida.

Amoeba (= *Chaos*) *lescheri* **sp. n.**, TAYLOR & HAYES **624** p. 464.—*A. mustela* **sp. n.**, coast of Arcachon, DELPHY **152** p. 54.—*A. proteus* **var. n.** *cyanea* (**nom. n.** for *Chaos cyaneum* N., 1938), NOZAWA **483** p. 243.

Copramoeba **gen. n.** *salamandrae* **sp. n.** coprozoic in Japanese salamander *Triturus pyrrhogaster*, LOBECK **365** p. 259.

Dientamoeba regarded as aberrant flagellate (*vide* Mastigophora, Protomonadida).

Dobellina **gen. n.** (nom. n. for *Entamoeba mesnili* Keilin, 1917 : type), BISHOP & TATE **58**.

Endolimax leptocoridis **sp. n.** from bug, *Leptocoris* U.S.A., KAY **310** p. 724.

Entamoeba ctenosaurae, *E. cuautlae* **spp. n.** from Mexican iguana *Ctenosaura acanthura*, HEGNER & HEWITT **243** pp. 319, 320.—*E. debliecki* : occurrence in English goats, comparison with *E.* of pigs, etc., HOARE **252**.—*E. polypodia* **sp. n.** from bug, *Leptocoris* U.S.A., KAY **310** p. 724.—*E. pyrrhogaster* **sp. n.** from Japanese salamander *Triturus pyrrhogaster*, LOBECK **365** p. 246.

Martinezia **gen. n.** *baezi* **sp. n.** from iguana *Ctenosaura acanthura* Mexico, HEGNER & HEWITT **243** p. 319

Pelomyxa marina **sp. n.** coast of Arcachon, DELPHY **152** p. 54.

Vahlkampfia salamandrae **sp. n.** coprozoic in Japanese salamander *Triturus pyrrhogaster*, LOBECK **365** p. 258.—*V. vacua*, *marina* **spp. n.** coast of Arcachon, DELPHY **152** p. 52.

(b) Testacea.

Moss-inhabiting Testacea from Dutch E. Indies, HOOGENRAAD & DE GROOT **261**.

Difflugia platidens, *D. perfilievi*, *D. mamma*, *D. borodini*, *D. conicollis* **spp. n.**, *D. gramen elliptica*, *D. pyriformis longicollis* **subspp. n.** Karelian lakes, GASSOWSKY **201** pp. 103–120.

Pamphagus dorinae **sp. n.** coast of Arcachon, DELPHY **152** p. 56.

Pompholyxophrys penardi **sp. n.** from Karelian lakes N. Russia, GASSOWSKY **201** p. 115 (120).

Quadrula plicata **sp. n.** from moss, Dutch E. Indies, HOOGENRAAD & DE GROOT **261** p. 248.

(c) Foraminifera.

Monograph on Foraminifera, with key to genera, bibliography, etc., CUSHMAN **144**.

New classification of Foraminifera, TAN SIN HOK **615**.

List of Senonian Foraminifera from Limburg, RAADSHOOVEN **513**.

List of Foraminifera from coasts of Indochina, LE CALVEZ, **353**.

Foraminifera from Formosa, ISHIZAKI, **281**

List of Foraminifera from volcanic mud, Formosa, ASANO **25**.

Fossil Foraminifera of New Zealand, FINLAY, **186**, **187**.

List of recent Foraminifera from coast of Florida, STUBBS **599**.

Arenaceous Foraminifera from Pacific Ocean, CUSHMAN & MCCULLOCH **145**.

†*Allomorphina whangaia* **sp. n.** Santonian-Campanian New Zealand, FINLAY **187** p. 468.

†*Alveolina elliptica* **var. n.** *nuttalli* Eocene India, DAVIES **148** p. 219.

†*Ammobaculites cuyleri*, *A. testacea*, *A. variabilis* **spp. n.** Cretaceous Texas, TAPPAN **618** pp. 96, 97.—†*A. hayasakai* **sp. n.** Miocene Formosa, ISHIZAKI **280** p. 113.—*A. ineptus*, *A. catenulatus* **sp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** pp. 89, 90.

Ammodiscus minutissimus **sp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** p. 70.

Ammofrondicularia compressa **sp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** p. 68.

†*Ammomarginulina arenacea* **sp. n.** Miocene Sumatra, LE ROY **355** p. 227.

†*Amphicoryne prora* **sp. n.** Tertiary New Zealand, FINLAY, **187** p. 452.

†*Anomalina plummerae* **sp. n.** Cretaceous Texas, TAPPAN, **618** p. 124.—†*A. piripaua* **sp. n.** Santonian-Campanian New Zealand, FINLAY **186** p. 325.—†*A. visenda, A. aotea, A. vitrinoda, A. semiteres, A. miosuturalis, A. eosuturalis, A. subnonionoides, A. spherica, A. pinguiylabra, A. macroglabra, A. eoglabra, A. parvumbilia* **sp. n.** Secondary-Tertiary New Zealand, FINLAY **187** pp. 458–61.

†*Aragonia* **gen. n.** *zelandica* **sp. n.** Cretaceous-Eocene New Zealand, FINLAY **186** pp. 318, 319.

†*Assilina rota* **sp. n.** Eocene India, DAVIES **148** p. 215.

†*Asterigerina waiareka, A. lornensis* **spp. n.** Oligocene New Zealand, FINLAY **186** p. 324.

Astrorhiza hancocki **sp. n.** from Pacific Ocean, CUSHMAN & MCCULLOCH **145** p. 31.

†*Athecocyclina* **subgen. n.** Vaughan and Cole, 1940 (genotype *Discocyclina cookei* Vaughan), CUSHMAN **144** p. 330.

†*Baggina compressa, B. inflata* **spp. n.** Neogene, Sumatra, LE ROY **355** pp. 259, 260.

†*Bifarina tenuilissa* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 118.—†*B. crenulata* **sp. n.** Neogene Sumatra, LE ROY **355** p. 250.

†*Bigenerina pliocenica* **sp. n.** Pliocene New Zealand, FINLAY **186** p. 311.—†*B. reophaciformis* **sp. n.** Miocene Formosa, ISHIZAKI **280** p. 111.

†*Bolivina* **spp. n.** Formosa, ISHIZAKI **281** p. 13.—†*B. karakemerica* **sp. n.** Emba district (Caspian Sea), MOROZOVA **456**.—†*B. longicostata, B. gesteri, B. marginoserrata, B. sumatrensis, B. uniforminata* **spp. n.** Neogene, Sumatra, LE ROY **355** pp. 246–248.—†*B. anastomosa, B. pontis, B. affiliata* **spp. n.** Oligocene, Miocene, Pliocene New Zealand, FINLAY **186** p. 320.

†*Bolivinita pohana, B. compressa, B. pliozea* **spp. n.** Miocene-Pliocene New Zealand, FINLAY **186** p. 319.—†*B. quadrilatera* **var. n.** *sumatrensis* Neogene, Sumatra, LE ROY **355** p. 242.

†*Bolivinoides dorreeni* **sp. n.** Santonian New Zealand, FINLAY **187** p. 453.

†*Bolivinopsis carinatiformis* **sp. n.** Emba district (Caspian Sea), MOROZOVA **456**.

†*Bulimina* **sp. n.** Formosa, ISHIZAKI **281**, p. 13.—†*B. miolaevis, B. mapiria, B. rakauroana, B. senta, B. truncanella, B. bremneri, B. forticosta, B. pahiensis, B. scobinata* **spp. n.** Tertiary New Zealand, FINLAY **187** pp. 454–5.—†*B. nannina* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 116.—†*B. truncana* **var. n.** *aksuatica* Emba district (Caspian Sea), MOROZOVA **456**.

†*Buliminella sauria, B. browni* **spp. n.** Santonian & Eocene resp. New Zealand, FINLAY **186** p. 321.

†*Camerina barkeri, C. mississippiensis* **spp. n.** Claiborne Mississippi, GRAVELL & HANNA **213** pp. 412, 413.

†*Cancris amplus, C. brevior, C. lateralis, C. compressus, C. maoricus* **spp. n.** Tertiary New Zealand, FINLAY **187** pp. 463–4.

†*Cassidulina cuneata* **sp. n.** Tertiary New Zealand, FINLAY **187** p. 456.

†*Cibicides mediocris, C. deliquatus, C. catillus, C. ihungia, C. verrucosus, C. amoenus, C. collinsi* **spp. n.** Tertiary New Zealand, FINLAY **187** pp. 464–6.—†*C. sinistralis, C. robertsonianus haitiensis, C. perforatus* **spp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 335.—†*C. dorsopustulosus, C. foxi, C. koeboeensis, C. rokanensis, C. tapanoeliensis, C. telisaensis* **spp. n.** Neogene, Sumatra, LE ROY **355** pp. 268–271.

†*Clavulina subangularis* **sp. n.** Miocene Formosa, ISHIZAKI **280** p. 112.

†*Conotrochammina* **gen. n.** *whangaia* **sp. n.** Cretaceous New Zealand, FINLAY **187** p. 448.

Cribrogoësella pacifica **sp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** p. 99.

†*Cyclammina grangei* **sp. n.** Cretaceous-Eocene New Zealand, FINLAY **187** p. 448.—†*C. minima* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 228.

†*Dentalina doemaiensis* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 234.

†*Dentalinopsis subquadrata* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 119.

†*Discocyclina* (*Prorocyclina & Athecocyclina* **subgenn. n.** : *q.v.*).

Discocyclinidae **fam. n.** Vaughan & Cole, 1940, CUSHMAN **144** p. 327.

†*Discorbis scopos, D. turgidus, D. appositus, D. jugosus* **spp. n.** Tertiary New Zealand, FINLAY **187** pp. 466–7.

†*Dorothia biformis, D. agrestis* **spp. n.** Santonian-Campanian & Eocene resp. New Zealand, FINLAY **186** p. 313.—†*D. elongata* **sp. n.** Santonian New Zealand, FINLAY **187** p. 450.

†*Eggerella decepta* **sp. n.** Eocene New Zealand, FINLAY **186** p. 312.—†*E. columna, E. ihungia* **spp. n.** Cretaceous & Miocene resp. New Zealand, FINLAY **187** pp. 449–50.

†*Ehrenbergina marwicki, E. osbornei, E. fyfei* **spp. n.** Miocene New Zealand, FINLAY **186** pp. 322–3.

†*Elongobula* **gen. n.** *chattonensis* **sp. n.** (type), *E. creta, E. lawsi* **spp. n.** Cretaceous-Oligocene New Zealand, FINLAY **186** p. 322.

†*Elphidium koeboeense* **sp. n.** Neogene Sumatra, LE ROY **355** p. 240.

Eolepidina **subgen. n.** (of *Lepidocyclina*) **nom. n.** for *Eulinderina semiradiata* B. & G., 1936 : type, TAN SIN HOK **615** p. 69.

†*Fissurina crenulata* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 327.

†*Frondicularia teuria, F. steinekei* **spp. n.** Campanian & Santonian resp. New Zealand, FINLAY **186** p. 316—†*F. bulbosa* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 327.

†*Fusulina constricta* **sp. n.** Lower Pennsylvanian U.S.A., JOHNSON **296** p. 128.

†Fusulinids, Sub-Permian, from Karakorum, REICHEL **523**.

†*Gaudryina cushmani* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 99.—†*G.* (*Pseudogaudryina*) **sp. n.** Formosa, ISHIZAKI **281** p. 13.—*G. subglabrata* **sp. n.**, *G.* (*Pseudogaudryina*) *atlantica* **var. n.** *pacifica* Pacific Ocean, CUSHMAN & MCCULLOCH **145** pp. 92, 94.—†*G. whangaia, G. healyi, G. reliqua* **spp. n.** Campanian, Santonian & Eocene resp. New Zealand, FINLAY **186** p. 311.

†*Glandulina kalimnensis* **sp. n.** Pliocene Australia, PARR **498** p. 67.

†*Globigerina baroemoenensis, G. siakensis* **spp. n.** Neogene, Sumatra, LE ROY, **355** pp. 262, 263.—†*G. graysonensis, G. planispira* **spp. n.** Cretaceous Texas, TAPPAN **618** p. 122.—†*G. circumnodifer* **sp. n.** Santonian New Zealand, FINLAY **187** p. 469.—†*G. haitiensis* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 339.

†*Globigerinoides sacculiferus* **var. n.** *immatura* Neogene, Sumatra, LE ROY **355** p. 263.

†*Globorotalia miozea, G. collactea* **spp. n.** Miocene-Pliocene & Eocene resp. New Zealand, FINLAY **186** pp. 326–7.—†*G. barisanensis* **sp. n.** Neogene Sumatra, LE ROY **355** p. 265.—†*G. subbotinae* **sp. n.**, *G. pseudoscitula* **mut. n.** Emba district (Caspian Sea), MOROZOVA **456**.

Goësella parva **sp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** p. 98.

†*Gümbelina washitensis* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 115.—†*G. panikauia, G. ototara* **spp.** Santonian & Oligocene resp. New Zealand, FINLAY **187** p. 453.

†*Gümbelitria harrisi* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 115.

†*Gümbelitriella* **gen. n.** *graysonensis* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 115.

†*Gyroidina* **spp. n.** Formosa, ISHIZAKI **281** p. 13.—†*G. loetterlei* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 120.—†*G. allani, G. zelandica, G. stineari, G. scrobiculata* **spp. n.** Oligocene-Pliocene, Miocene-Pliocene, Eocene resp. New Zealand, FINLAY **186** pp. 323–4.—†*G. infrafossa* **sp. n.** Santonian-Campanian New Zealand, FINLAY **187** p. 462.

†*Haeuslerella hectori, H. parri* **spp. n.** Miocene and Pliocene resp. New Zealand, FINLAY **186** p. 310.

Haplophragmoides columbiense **var. n.** *evolutum, H. hancocki, H. veleronis, H. subinvolutum* **spp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** pp. 73, 79, 82, 83.—†*H. compressa* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 227.

Helicolepidinae **subfam. n.** (in Orbitoididae) Vaughan & Cole, 1940 CUSHMAN **144** p. 325.

Helocostegina [Barker & Grimsdale **35** in Z.R. lxxiii, 1936] should read *Helicostegina*.

†*Karreriella* (*Karrerulina* **subgen. n.**: q.v.), *K. cushmani*, *K. cylindrica* **spp. n.** Oligocene-Miocene-Pliocene New Zealand, FINLAY **187** p. 452.

†*Karrerulina* **subgen. n.** (of *Karreriella*) *bortonica*, *aegra*, *clarentia* **subspp. n.** Eocene-Oligocene, Eocene and Turonian resp. New Zealand, FINLAY **187** pp. 450–1.

†*Lagena leptata*, *L. striatifera* **spp. n.** Cretaceous Texas, TAPPAN **618** p. 112.

†*Lagenammina pyriformis* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 94.

†*Lagenonodosaria extensa*, *L. sigmoidea* **spp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 328.

†*Laticarinina angustata* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 333.

†*Lenticulina* (*Robulus*) *taiwanensis* **sp. n.** Miocene Formosa, ISHIZAKI **280** p. 114.

†*Lepidocyclina* (*L.*) *claibornensis* **sp. n.** Claiborne Mississippi, GRAVELL & HANNA **213** p. 414.—*L.* : *Eolepidina* **subgen. n.** (*q.v.*).

†*Lingulina lamellata*, *L. serrata* **spp. n.** Cretaceous Texas, TAPPAN **618** pp. 106, 107.—†*L. tricrenata* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 329.

†*Loxostomum irregulare* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 249.

Marginopora anomala **sp. n.**, *M.* (*Amphisorus*) *kemprichi* **var. n.** *subplicata* coast of Indochina, LACROIX **345** pp. 12, 15.

†*Marginulina papillata*, *M. howeana* **spp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 329.—†*M. allani* **sp. n.** Oligocene New Zealand, FINLAY **186** p. 318.

†*Marginulinopsis marshalli*, *M. waiparaensis* **spp. n.** Eocene New Zealand, FINLAY **186** p. 317.

†*Massilina planoconvexa* **sp. n.** Cretaceous Texas, TAPPAN **618** p 100.

†*Matanzia simulans*, *M. mahoenuia* **spp. n.** New Zealand, FINLAY **186** p. 314.

†*Migros* **gen. n.** (**nom. n.** for *Gaudryina medwayensis*) Miocene-Recent New Zealand, FINLAY **186** p. 312.

Milletella glabrella **sp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** p. 43.

Miogypsinidae **fam. n.** Vaughan & Cole, 1940, CUSHMAN **144** p. 330.

†*Neobulimina minima* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 117.

†*Nodosaria aliantanensis* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 236.—†*N. bifurcata*, *N. chapmani* **spp. n.** Cretaceous Texas, TAPPAN **618** p. 103.—†*N. helicata*, *N. sublineata* **spp. n.** Miocene Haiti, CORYELL & RIVERO **137** pp. 330, 331.—†*N. subtetragona*, *N. sinalata*, N. (?) *multicostales* **spp. n.** Miocene-Pliocene New Zealand, FINLAY **187** p. 452.

†*Nonion* **sp. n.** Formosa, ISHIZAKI **281** p. 13.—†*N. iota* **sp. n.** Tertiary New Zealand, FINLAY **187** p. 456.

†*Nonionella* **sp. n.** Formosa, ISHIZAKI **281** p. 13.—†*N. magnalingua*, *N. zenitens*, *N. satiata*, *N. tanumia* **spp. n.** Tertiary New Zealand, FINLAY **187** pp. 456–7.

†*Notorotalia serrata*, *N. powelli* **spp. n.** Miocene New Zealand, FINLAY **186** p. 323.

†*Nummulites pinfoldi* **sp. n.** Eocene India, DAVIES **148** p. 209.

†*Nuttalides tholus* **sp. n.** Santonian New Zealand, FINLAY **187** p. 462.

Orbitocyclina **nom. n.** for *Lepidocyclina* (*Polylepidina*) *punjabensis*, TAN SIN HOK **615**.

†*Paleopolymorphina ozawai* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 113.

†*Palmula rakauroana*, *P. thalmanni*, *P. bivium*, *P. bensoni*, *P. taranakia* **spp. n.** Santonian, Campanian & Eocene resp. New Zealand, FINLAY **186** pp. 314–315.

†*Parafusulina aghilensis* **sp. n.**, *P. japonica cincta* **subsp. n.**, *P. j.* **var. n.** *densa*; *P. shaksgamensis*, *P. visseri* **spp. n.**; *P. v.* **var. n.** *lata* Sub-Permian Karakorum, REICHEL **523** pp. 101, 106, 108, 109, 112, 114.

†*Parvicarinina* **gen. n.** (**nom. n.** for *Truncatulina tenuimargo* var. *altocamerata* H.-A. & E.), *P. deflata* **sp. n.** (Miocene) New Zealand, FINLAY **187** pp. 467–8.

†*Patellina piripauia* **sp. n.** Santonian New Zealand, FINLAY **186** p. 323.

†*Placopsilina longa* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 100.—*P. bradyi* **sp. n.** Pacific Ocean, CUSHMAN & McCULLOCH **145** p. 112

†*Planularia whangaia, P. rakauroana* **spp. n.** Campanian-Santonian New Zealand, FINLAY **186** p. 317.—†*P. patens* **var. n.** *aspinosa* Neogene, Sumatra, LE ROY **355** p. 238.

†*Planulina rakauroana* **sp. n.** Santonian-Campanian New Zealand, FINLAY **186** p 326.—†*P. kalimnensis* **sp. n.** Pliocene Australia, PARR **498** p. 69.—†*P. evoluta* **sp. n.** Neogene Sumatra, LE ROY **355** p 266.

†*Plectina quennelli, P. agrestior* **spp. n.** Eocene New Zealand, FINLAY **186** p. 313.

†*Plectofrondicularia fyfei* **sp. n.** Miocene New Zealand, FINLAY **186** p. 319.

†*Prorocyclina* **subgen. n.** Vaughan & Cole, 1940 (genotype *Discocyclina perpusilla* Vaughan), CUSHMAN **144** p 330.

Proteonina compressa **sp. n.** Pacific Ocean, CUSHMAN & McCULLOCH **145** p. 42.

†*Pseudogaudryina anachrons* **sp. n.** Oligocene New Zealand, FINLAY **186** p. 312.

†*Pseudoglandulina trochoformis* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 332.—†*P. scotti* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 105.

†*Pseudopolymorphina* **sp. n.** Formosa, ISHIZAKI **281** p. 13.—†*P. victoriensis* **sp. n.** Pliocene Australia, PARR **498** p. 67.—†*P. roanokensis* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 113.

†*Pulvinulinella* **sp. n.** Formosa, ISHIZAKI **281** p. 13.—†*P. acutimarginata, P. creta* **spp. n.** Santonian-Campanian New Zealand, FINLAY **187** pp. 462–3.

†*Pyrulina longa* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 114.

†*Quadrimorphina* **gen. n.** (**nom. n.** for *Valvulina allomorphinoides*) Cretaceous-Eocene New Zealand, FINLAY **186** p. 325.

†*Quinqueloculina* **sp. n.** Formosa, ISHIZAKI **281** p. 13.—*Q. torrei* **sp. n.** from coast of Cuba, ACOSTA **11** p. 1.—†*Q. newcombi* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 232.

†*Rectobolivina maoria, R. maoriella* **spp. n.** Miocene-Pliocene New Zealand, FINLAY **186** pp. 320-1.—†*R. hangaroana* **sp. n.** Miocene New Zealand, FINLAY **187** p. 453.

†*Reophax formosensis* **sp. n.** Miocene Formosa, ISHIZAKI **280** p. 110.—†*R. deckeri, R. minuta* **spp. n.** Cretaceous Texas, TAPPAN **618** p. 94.

†*Robulus oblongus* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 332.—†*R. dorothiae* **sp. n.** Miocene New Zealand, FINLAY **186** p. 314.—†*R. sumatrensis, R. tangens* **spp. n.** Neogene, Sumatra, LE ROY **355** p. 233.

†*Rotalia hamiltonensis* **sp. n.** Pliocene Australia, PARR **498** p. 69.—†*R. beccarii* **varr. n.** *gigantica, baganensis, koeboeensis, tepida*; *R. indica* **sp. n.** Neogene, Sumatra, LE ROY **355** pp. 255–257.

†*Rotamorphina* **gen. n.** *cushmani* **sp. n.** Cretaceous New Zealand, FINLAY **186** p. 325.

Rudigaudryina **gen. n.** *inepta* **sp. n.** Pacific Ocean, CUSHMAN & McCULLOCH **145** p. 94.

†*Saracenaria cushmani* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 106.

†*Schackoina primitiva* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 123.

†*Sigmoidella bortonica* **sp. n.** Eocene New Zealand, FINLAY **186** p. 318.

†*Sigmoidina* **sp. n.** Formosa, ISHIZAKI **281** p. 13.

†*Siphogenerina panggoeensis* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 252.

†*Siphonodosaria australis* **sp. n.** Pliocene Australia, PARR **498** p. 68.—†*S. excentrica* **sp. n.** Neogene, Sumatra, LE ROY **355** p. 252.

†*Siphotextularia* **sp. n.** Formosa, ISHIZAKI **281** p. 13.—†*S. acutangula, S. wanganuia* **spp. n.** Eocene & Pliocene resp. New Zealand, FINLAY **186** p. 310.—†*S. kreuzbergi, S. ihungia, S. subcylindrica* **spp. n.** Miocene New Zealand, FINLAY **187** p. 449.

Sorites variabilis **sp. n.**, *S. hofkeri* **nom. n.** for *Proesorites orbitolitoides* H. coast of Indochina, LACROIX **345** pp. 7, 10.

†*Sphaeroidinella disjuncta* **sp. n.** Miocene New Zealand, FINLAY **187** p. 469.

†*Spiroplectammina arenacea*, *S. arenasuturata* **spp. n.** Neogene Sumatra, LE ROY **355** pp. 228–9.—†*S. ammovitrea* **sp. n.** Cretaceous Texas, TAPPAN **618** p. 97.—†*S. steineckei*, *S. piripaua* **spp. n.** Santonian-Campanian New Zealand, FINLAY 186 p. 309.

†*Streblus* Fischer, 1817 valid generic name for *Rotalia schroeteriana* and allied forms, ISHIZAKI **282**.—†*S. aoteanus* **sp. n.** Pliocene-Recent New Zealand, FINLAY **187** p. 461.

†*Textularia malaccaensis* **sp. n.** Neogene Sumatra, LE ROY **355** p. 230.—*T. astutia*, *T. aura*, *T. lancea*, *T. lauta*, *T. orbica*, *T. plaga*, *T. ramosa*, *T. secasensis*, *T. scrupula*, *T. vola* **spp. n.** from Pacific Ocean, LALICKER & MCCULLOCH **346** p. 115.—†*T. kansaiensis* **sp. n.** Miocene Formosa, ISHIZAKI **280** p. 110.—†*T. warrenites* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 325.

Textulariidae from Pacific Ocean, LALICKER & MCCULLOCH **346**.

†*Triloculina* **sp. n.** Formosa, ISHIZAKI **281** p. 13.

†*Triticites wyssi* **sp. n.** Sub-Permian Karakorum, REICHEL **523** p. 98.

Trochammina pacifica **var. n.** *simplex*; *T. squamiformis*, *T. carinata* **spp. n.** Pacific Ocean, CUSHMAN & MCCULLOCH **145** pp. 104, 108, 109.

†*Uvigerina multicostata*, *U. soendaensis* **spp. n.** Neogene, Sumatra, LE ROY **355** p. 251.—†*U. laviculata*, *U. quadrata* **spp. n.** Miocene Haiti, CORYELL & RIVERO **137** pp. 342, 343.—†*U. costellata* **sp. n.** Emba district (Caspian Sea), MOROZOVA **456** p. 85.

Vaginulina complanata **var. n.** *perstriata* Cretaceous Texas, TAPPAN **618** p. 108.—†*V. obliquata* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 333.

†*Vagocibicides* **gen. n.** *maoria* **sp. n.** Miocene-Recent New Zealand, FINLAY **186** p. 326.

†*Valvulineria collis* **sp. n.** Miocene Haiti, CORYELL & RIVERO **137** p. 338.

†*Virgulopsis* **gen. n.** *pustulata* **sp. n.** Miocene New Zealand, FINLAY **186** p. 321.

†*Vulvulina jablonskii*, *V. büningi* **spp. n.** Miocene & Campanian resp. New Zealand. FINLAY **186** pp. 309–10.

†*Zeauvigerina parri* **sp. n.** Eocene New Zealand, FINLAY **186** p. 320.

(d) Heliozoa.

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(e) Radiolaria.

†*Acanthosphaera dodecaspinosa*, *A. microspinosa*, *A. hirsuta*, *A. grandispinosa* **spp. n.** Devonian Texas, ABERDEEN **10** pp. 137, 138.

†*Astrophacus cingulatus* **sp. n.** Devonian Texas, ABERDEEN **10** p. 139

†*Carposphaera magna*, *C. equalis* **spp. n.** Devonian Texas, ABERDEEN **10** p. 133.

†*Cenosphaera variabilis*, *C. hexagonalis*, *C. semiequalis* **spp. n.** Devonian Texas, ABERDEEN **10** p. 133.

†*Haliomma perfecta* **sp. n.** Devonian Texas, ABERDEEN **10** p. 138.

†*Heliosphaera macrospinosa*, *H. alternata* **spp. n.** Devonian Texas, ABERDEEN **10** p. 138.

†*Hexastylidium variatum* **sp. n.** Devonian Texas, ABERDEEN **10** p. 136.

†*Hexastylus basiporosus* **sp. n.** Devonian Texas, ABERDEEN **10** p. 136.

†*Plegmosphaera spiculata* **sp. n.** Devonian Texas, ABERDEEN **10** p. 134.

†*Spongoplegma brevisphaera*, *S. longispinosa* **spp. n.** Devonian Texas, ABERDEEN **10** p 134

†*Staurodoras brevispinosa* **sp. n.** Devonian Texas, ABERDEEN **10** p 136.

†*Staurosphaera rotunda* **sp. n.** Devonian Texas, ABERDEEN **10** p. 135.

†*Staurostylus varispinatus* **sp. n.** Devonian Texas, ABERDEEN **10** p. 135.

†*Stylosphaera quasiobtusa* **sp. n.** Devonian Texas, ABERDEEN **10** p. 135.

†*Thecosphaera hexpenetrata* **sp. n.** Devonian Texas, ABERDEEN **10** p. 134.

†*Xiphostylus inclinatus* **sp. n.** Devonian Texas, ABERDEEN **10** p. 135.

3.—MASTIGOPHORA.

A. PHYTOMASTIGINA.

(a) Chrysomonadina.

Revision and classification of fossil Silicoflagellates, FRENGUELLI **191**.

Angulochrysis **gen. n.** *erratica* **sp. n.** marine U.S.A., LACKEY **343** p. 463.

Archaeomonadaceae, Cretaceous, from California, RAMPI **515**.

†*Archaeomonadopsis frenguellii, A. incerta, A. elegante* **spp. n.** Cretaceous California, RAMPI **515** pp. 66–7.

†*Archaeomonas semplicia, A. spinulosa, A. chiarugii, A. ambigua, A. membranosa, A. scrobiculata, A. cretacea, A. smithi* **spp. n.** Cretaceous California, RAMPI **515** pp. 60–66.

Chromulina neustophila **sp. n.** Belgium, CONRAD **133** p. 3.

Chrysococcus cinctus sp. n. Woods Hole (Atlantic) LACKEY **343** p. 466.

Ochromonas marina **sp. n.** Woods Hole (Atlantic) LACKEY **343** p. 464.

†*Spyrebria* **gen. n.** *clathrata* **sp. n.** FRENGUELLI **191** p. 97.

Stylochromonas **gen. n.** *minuta* **sp. n.** Woods Hole (Atlantic) LACKEY **343** p. 464.

(b) Cryptomonadina.

Chroomonas guttula **sp. n.** Belgium CONRAD **131** p. 4.

Cryptochrysis atlantica **sp. n.** Woods Hole (Atlantic) LACKEY **343** p. 466.

Protochrysis vinosa **sp. n.** Belgium CONRAD **131** p. 5.

Rhodomonas rhynchophora, R. amphioxeia **spp. n.** Belgium, CONRAD **131** pp. 1, 2.

(c) Dinoflagellata.

British Dinoflagellates, with spp. n., HARRIS **227**.

Amphidinium coeruleum, A. ornithocephalum **spp. n.** Belgium, CONRAD **129** pp. 10, 7.—*A. aeschrum, A. gyrinum, A. tenagodes* **spp. n.** British freshwater, HARRIS **227** pp. 18–20.

†*Cryptarchaeodinium* **gen. n.** *calcaratum* **sp. n.** Jurassic France, DEFLANDRE **150** p. 145.

Glenodinium punctulatum, G. leptodermum, G. helicozoster, G. eurystonum, G. limos **spp. n.** British freshwater, HARRIS **227** pp. 21–25.

†*Gonyaulax mamillifera, G. nannotrix, G. amabilis, G. ambigua* **spp. n.** Jurassic France, DEFLANDRE **150** pp. 141–4.—*G. triacantha* **var. n.** *subinermis* Belgium, CONRAD **132** p. 1.

Gymnodinium blax, G. colymbeticum, G. impar, G. cnecoides, G. disoidale, G. saginatum **spp. n.** British freshwater, HARRIS **227** pp. 6–11.—*G. novaculosum* **sp. n.** Germany, BAUMEISTER **43** p. 401.

Massartia thiophila, M. galeata **spp. n.** Belgium, CONRAD **129** p. 8.—*M. campylops, M. tetragonops, M. molopica, M. ptyrtica, M. hyperxantha, M. hyperxanthoides* **spp. n.** British freshwater, HARRIS **227** pp. 13–16.

†*Palaeoperidinium crassinervum, P. hyalodermum* **spp. n.** Jurassic France, DEFLANDRE **150** p. 144.

Pyrodinium phoneus **sp. n.** from marine canal, Belgium, causing mussel-poisoning, WOLOSZYNSKA & CONRAD, **681** p. 1.

Tetradinium chiastosporum **sp. n.** British freshwater, HARRIS **227** p. 25.

(d) Euglenoidida.

Anisonema orbiculatum **sp. n.** Woods Hole (Atlantic), LACKEY **343** p. 469.—*A. marinus* **sp. n.** coast of Arcachon, DELPHY **152** p. 51.

Copromonas: relationship to and differentiation from *Scytomonas* and *Anisonema*, GATENBY & SMYTH **202**.

Euglena gracilis **var. n.** *urophora* from Italy, CHADEFAUD & PROVASOLI **98** p. 55.

Peranemopsis **gen. n.** *striata* **sp. n.** Woods Hole (Atlantic) LACKEY **343** p. 467.

Triangulomonas **gen. n.** *rigida* **sp. n.** Woods Hole (Atlantic), LACKEY **343** p. 467.

(e) Phytomonadida.

Heteromastix fissa **sp. n.** Woods Hole (Atlantic), LACKEY **343** p. 466.

Pyramidomonas amylifera **sp. n.** Belgium, CONRAD **130** p. 1.

B. ZOOMASTIGINA.

(f) Protomonadida.

Bodopsis platyformis **sp. n.** Woods Hole (Atlantic), LACKEY **343** p. 470.

Coronympha octonaria **sp. n.** from termite *Kalotermes emersoni*, Mexico, KIRBY **317** p. 20

Crithidia gallardoi **sp. n.** from intestine of S. American bug, *Microtomus lucifer*, MAZZA **395** p. 36, figs.

Dientamoeba fragilis regarded as aberrant flagellate, related to *Histomonas* and Trichomonadidae; description of morphology, development, nuclear processes, etc., DOBELL **163**.

Metacoronympha **gen. n.** *senta* **sp. n.** from termite *Kalotermes emersoni*, Mexico, KIRBY **317** p. 207.

Phyllomitus salinus **sp. n.** Woods Hole (Atlantic), LACKEY **343** p. 470.

Pseudotrichomonas **gen. n.** (**nom. n.** for "*Trichomonas*" *keiliñi* Bishop, 1935: type), BISHOP **57**.

Rhynchobodo agilis **sp. n.** Woods Hole (Atlantic), LACKEY **343** p. 470.

Trichomonas vaginalis and *T. intestinalis* regarded as distinct species, KESSEL & GAFFORD **311**.

Trypanosoma bocagei França, 1910, from toads; development in and transmission by sandfly, FENG & CHUNG **182**.

(g) Hypermastigida.

[Vacant.]

(h) Diplomonadida.

[Vacant.]

(i) Polymonadida.

[Vacant.]

FLAGELLATA INCERTAE SEDIS.

Multicilia instructa **sp. n.** from coast of Arcachon, DELPHY **152** p. 51.

4.—SPOROZOA.

A. COCCIDIOMORPHA.

(a) Gregarinida.

Nematopsis ostrearum **sp. n.** parasitic in crustaceans and oysters, Atlantic Ocean, PRYTHERCH **512** p. 39.

Sawayaella **gen. n.** *polyzoorum* **sp. n.** from gut of Polyzoa, Atlantic coast, Brazil, MARCUS **385** p. 259.

Schizogregarinaria: key to genera, MARCUS **385**.

(b) Coccidiida.

Adelina schellacki **sp. n.** from Indian centipede *Cormocephalus dentipes*, RAY & DAS-GUPTA **518** p. 393.

Eimeria caviae, detailed description of structure, life-cycle, physiology and host-parasite relationship, LAPAGE **349**.

Haemogregarina mellisselensis **sp. n.** from *Lacerta serpa*, Isl. Brusnik, Adriatic, GEORGÉVITCH **204** p. 1.

Isospora struthionis **sp. n.** from African ostrich, YAKIMOFF **686** p. 138.

(c) Haemosporidia.

Malaria parasites: nomenclature, CHRISTOPHERS **115**.

Luhsidae **fam. n.** of Piroplasmidea, in Caucasian cattle, DSCHUNKOWSKY **167**.

Plasmodium wilsoni **sp. n.** from man, E. Africa, ROBERTS **532** p. 212.

B. CNIDOSPORIDIA.

(d) Myxosporidia.

Ceratomyxa urophysis **sp. n.** from marine fish, *Urophysis tenuis*, Canada, FANTHAM, PORTER & RICHARDSON **180** p. 334.

Henneguya ameiurensis **sp. n.** from American fish *Ameiurus nebulosus*, NIGRELLI & SMITH **478** p. 89.—*H. amiae* **sp. n.** from Canadian fish *Amia calva*, FANTHAM, PORTER & RICHARDSON **180** p. 344.

Myxidium myoxocephali **sp. n.** from marine fish *Myoxocephalus octodecimspinosus*, Canada, FANTHAM, PORTER & RICHARDSON **180** p. 339.—*M. serotinum* **sp. n.** from *Rana* spp., U.S.A., KUDO & SPRAGUE **338** p. 68.

Myxoproteus myoxocephali **sp. n.** from marine fish *Myoxocephalus*, Canada, FANTHAM, PORTER & RICHARDSON **180** p. 336.

Myxosoma diaphana **sp. n.** from Canadian fish *Fundulus diaphanus*, FANTHAM, PORTER & RICHARDSON **180** p. 342.

(e) Microsporidia.

Duboscqia penetrans **sp. n.** parasitic in nematode *Platylenchus*, U.S.A., THORNE **627** p. 51.

Glugea caulleryi **nom. n.** for *G. microspora* v.d. Berghe, 1939, preoccupied (*G. m.* Thélohan, 1892), BERGHE **55**.

(f) Actinomyxidia.

Triactinomyxon ohridensis **sp. n.** from *Tubifex*, Yugoslavia, GEORGÉVITCH **206** p. 127.—*T. petri* **sp. n.** from Lumbricid worm, lake Ochrida, Yugoslavia, GEORGÉVITCH **207** p. 139.

(g) Sarcosporidia.

Sarcocystis: list of avian hosts, ERICKSON **179**.

(h) Haplosporidia.

[Vacant.]

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Toxoplasma hominis **sp. n.** from man (juv.) (first proved case), U.S.A., WOLF, COWEN & PAIGE **676** p. 208.

Trophosphaera **gen. n.** *planorbulinae* **sp. n.** (affinities with Coccidia and Haemosporidia), parasitic in Foraminifera, LE CALVEZ **352** p. 425.

5.—CILIOPHORA.

A. OPALINATA.

Cepedea siamensis **sp. n.** from *Bufo asper* Siam, METCALF **433** p. 506.—*C. virgula* **nom. n.** for *Opalina virgula* Dobell, 1910; *C. mogyana* **nom. n.** for *O. mogyana* Carini, 1937; *C. rubra* **nom. n.** for *O. rubra* C., 1937; *C. rugosa* **nom. n.** for *O. rugosa* C., 1937, METCALF **433**.—*C. plata* **sp. n.** from *Hyla faber* Brazil, METCALF **433** p. 521.—*C. longa macronucleata* **subsp. n.** from *Rana vittigera* Philippines; *C. l. hispanica* **subsp. n.** (**nom. n.** for *C. hispanica* M., 1923), METCALF **433** p. 519.—*C. ciliata* **sp. n.** from Anuran *Hyla fuscovaria* Brazil, METCALF **433** p. 518.—*C. luzonensis* **sp. n.** from *Rana luzonensis* and *R. similis*, Philippines; *C. l. aponensis* **subsp. n.** from *R. magna*, Philippines, METCALF **433** pp. 514–517.—*C. philippensis* **sp. n.** from *Bufo philippinicus* (Philippines) and *B. quadriporcatus* (Sumatra), METCALF **433** p. 513.—*C. lemuriae* **sp. n.** from Anuran *Polypedates rhodoscelis* Madagascar, METCALF **433** p. 508.—*C. hosei* **sp. n.** from Anuran *Nectophryne hosei* Borneo, METCALF **433** p. 505.—*C. microhylae* **sp. n.** from Anuran *Microhyla leucostigma* Borneo, METCALF **433** p. 504.—*C. hasseltii* **sp. n.** from Anuran *Leptobranchium* (= *Megophrys*) *hasseltii* Java, METCALF **433** p. 504.—*C. celebensis* **sp. n.** from *Bufo celebensis* (Celebes) and *B. divergens* (Borneo), METCALF **433** p. 502.

Opalina ranarum orbiculata **subsp. n.** from *Rana glandulosa* (Malaya) and *R. temporalis* (Ceylon), METCALF **433** pp. 527, 529.—*O. nucleolata* **sp. n.** from *Rana chalconota* (Java); *R. n. siamensis* **subsp. n.** from *R. macrodon* and *R. macrodactyla* (Siam), METCALF **433** pp. 538–540.—*O. mantellae* **sp. n.** from Anuran *Mantella baroni* Madagascar, METCALF **433** p. 535.—*O. annandali* **sp. n.** from *Rana tigrina* India, METCALF **433** p. 534.—*O. japonica javensis* **subsp. n.** from Anuran *Nictixalus margaritifera* Java, METCALF **433** p. 532.—*O. malaysiae* **sp. n.** from *Rana labialis*, Siam, METCALF **433** p. 530.—*O. zeylonica* **sp. n.** from Anuran *Polypedates eques* Ceylon, METCALF **433** p. 529.

Opalinidae: revision of spp. described since 1923, METCALF **433**.

Protoopalina bibronii **sp. n.** from Australian Anuran, *Pseudophryne bibronii*, METCALF **433** p. 468.—*P. yunnanensis* **sp. n.**, *P. y. cheni* **subsp. n.** from Anuran *Bombina maxima* China, METCALF **433** p 479.—*P. xamachana* **sp. n.** from Anuran *Eleutherodactylus luteolus* W. Indies, METCALF **433** p. 478.—*P. luzonensis* **sp. n.** from Anuran *Kaloula picta*, Philippines, METCALF **433** p. 473.—*P. capensis* **sp. n.** from Anuran *Heleophryne regis*, S. Africa, METCALF **433** p. 471.—*P. borneonensis* **sp. n.** from Anuran *Polypedates reinwardtii*, Borneo, METCALF **433** p. 469.

Zelleriella uruguayensis **sp. n.** from Anuran *Bufo arenarum* S. America, METCALF **433** p. 485.—*Z. u.* **f. n.** *quadrata* from *Bufo dorbignyi* S. America, METCALF **433** p. 486.—*Z. ovonucleata* **sp. n.** from Anuran *Leptodactylus pentadactylus* Brazil; *Z. o. bufonis* **subsp. n.** from *Bufo sternostignotus*, Mexico, METCALF **433** p. 491.—*Z. dubia* **sp. n.** from Anuran *Eupemphix nana* Brazil, METCALF **433** p. 489.—*Z. antunesi* **f. n.** *quadrata* from *Bufo crucifer* Brazil, METCALF **433** p. 488.

B. CILIATA.

(a) **Holotrichida.**

? *Ancistruma musculi* **sp. n.** from mussel Arcachon, DELPHY **152** p. 64.

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Foettingeria cerei **sp. n.** from coelenterate *Cereus pedunculatus* Arcachon, DELPHY **152** p. 60.

Glaucoma vorax **sp. n.** from pond water, U.S.A., KIDDER, LILLY & CLAFF **314**.

Hysterocineta **sp. n.** from Tortugas annelid *Pontodrilus*, WICHTERMAN **669** p. 233.

Loxophyllum pseudo-lionotus **sp. n.** from coast of Arcachon, DELPHY **152** p. 62.

Madsenia cyclina **sp. n.**, parasitic in marine mussel *Cyclina sinensis* Japan, UYEMURA **643** p. 365.

Maupasella **sp. n.** from Tortugas annelid *Pontodrilus*, WICHTERMAN **669** p. 233.

Micromidas **gen. n.** *hians* **sp. n.** coast of Arcachon, DELPHY **152** p. 61.

Microregma costata **sp. n.** coast of Arcachon, DELPHY **152** p. 61.

Micruncus **gen. n.** *complanatus* **sp. n.** coast of Arcachon, DELPHY **152** p. 62.

Sigalasia **gen. n.** *sigalasiorum* **sp. n.** from mollusc *Tapes decussatus* Arcachon, DELPHY **152** p. 64.

Uronema: relationship to *Cyclidium*, PARDUCZ **496**.

(b) **Heterotrichida.**

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Nyctotherus paulistanus, *N. vorax* **spp. n.** (from tadpoles), *N. ruber*, *N. elegans*, *N. cinctus* **spp. n.** (from *Hyla nebulosa*), *N. mogyanus*, *N. tieteanus* **spp. n.** (from *H. rubra*), *N. fragilis* **sp. n.** (from *H. radiana*), *N. vulgaris* **sp. n.** (from *H. microps*), *N. ondinae* **sp. n.** (from *H. leucophyllata*), *N. incertus* **sp. n.** (from *H. fuscovaria*), *N. gibber*, *N. loricatus* **spp. n.** (from *Leptodactylus ocellatus* & *L. pentadactylus*), *N. bertarelli* **sp. n.** (from *L. gracilis*), *N. heteronucleatus* **sp. n.** (from *L. mistaceus*), *N. oswaldoi* **sp. n.** (from *L. thyponius*), *N. paludicolae* **sp. n.** (from *Paludicola signifera*), *N. untanha* **sp. n.** (from *Ceratophris dorsata*), *N. ceratophris* **sp. n.** (from *C. americana*), CARINI **92** pp. 1–15 [sep. pag.].—*N. beltrani* **sp. n.** from iguana *Ctenosaura acanthura* Mexico, HEGNER **238** p. 315.

(c) **Oligotrichida.**

[Vacant.]

(d) **Entodiniomorpha.**

[Vacant.]

(e) **Hypotrichida.**

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(f) **Peritrichida.**

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III. PORIFERA

BY

M. BURTON, D.Sc.

I.—TITLES.

1.—Chapman, F. On a new genus of sponges from the Cambrian of the Flinders Range, South Australia. Trans. roy. Soc. S. Aust. **64** (1) 1940 pp. 101–108 4 pls.

2.—de Laubenfels, M. W. A discussion of the sponge fauna of the Dry Tortugas, etc. Pap. Tortugas Lab. Carn. Instn. **30** 1936. [Contains names of genera omitted from Zool. Rec. Vol. lxxiii, 1936 [1937].]

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†GRAPTOLITOIDEA.

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Didymograptus dilatans p. 131 fig., *validus* var. *communis* p. 132 fig., cf. *urbanus* p. 132 fig., *suecicus* var. *robusta* p. 132 fig., sp. (*praenuntius-hirundo* transient) p. 132 fig., *elongatus* **sp. n.** p. 132 fig. Lower Ordovician Victoria (Australia), *ensjoensis* p. 133 fig., HARRIS & THOMAS Mining & Geol. Journ. Dept. Mines Victoria **2** (2) 1940.—*D.* sp. or *Dicellograptus* sp. p. 248 fig., HUNDT **48**.

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Loganograptus logani p. 130 fig., *rectus* **sp. n.** p. 131 fig. Lower Ordovician Victoria (Australia), HARRIS & THOMAS Mining & Geol. Journ. Dept. Mines Victoria **2** 2 1940.

Mastigograptus laevis **sp. n.** p. 249 fig. Ordovician Thuringia, HUNDT Beitr. Geol. Thüringen Jena **5** 1940.

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Stenogorgia sewelli **sp. n.** p. 280 fig. East Africa, HICKSON Sci. Repts. John Murray Exped. **6** 1940.

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Stelliporella a synonym of *Heliolites* p. 198, JONES & HILL **53**.

Stratiphyllum emend. pro *Stratophyllum* [sic] p. 124, re-named *Ethmoplax* pp. 58, 124, LANG, SMITH & THOMAS **58**.

Stratophyllum—*vide Stratiphyllum*.

Striatopora possibly a synonym of *Cyathopora* pp. 44, 125, LANG, SMITH & THOMAS **58**.—*S. spiralis* **sp. n.** p. 393 fig. Silurian Missouri, BALL & GROVE Amer. Midl. Nat. Notre Dame **24** 1940. —*S.* sp. p. 200 fig., HILL & JONES **39**.

Stylidium probably a heliolitid p. 127, LANG, SMITH & THOMAS **58**.

Syringophyllum Edwards & Haime an exact synonym of *Sarcinula* p. 130, LANG, SMITH & THOMAS **58**.

Syringopora synonymous with *Caunopora* p. 33, and with *Drymopora*, *Harmodites* and *Vaughanites* p. 130, LANG, SMITH & THOMAS **58**.—*S. ramulosa* p. 101 fig., *parallela* p. 103 fig., *reticulata* p. 103 fig., *eichwaldi* p. 104 fig., *multattenuata* p. 105 fig., *tschernyschewi* p. 106 fig., *degeeri* **sp. n.** p. 106 fig. Upper Palaeozoic Spitzbergen, HERITSCH Ark. Zool. Stockholm **31** A 16 1940.—*S.* sp. p. 201 fig., HILL & JONES **39**.—*S. reticulata* p. 85 fig., var. *ischimica* **var. n.** p. 86 fig., *ramulosa* p. 86 fig., Lower Carboniferous Kazakhstan, ILYINA Bull. Soc. Nat. Moscou Sect. Géol. n.s. **47** 1 1939.—*S. regularis* **nom. nud.** p. 135 Lower Carboniferous Moscow Basin, SOKOLOV C.R. Acad. Sci. Moscou n.s. **25** 2 1939.

Tetradium fibratum discussed, *minus* discussed, *approximatum* restricted to *minus* Foerste (non Safford), *minus* Cumings (non Safford) a synonym of *huronense* p. 645, *drakei* **sp. n.** p. 646 fig. Ordovician Ohio, JAMES Amer. Midl. Nat. Notre Dame **24** 1940.

Tetrapora Yabe & Hayasaka renamed *Hayasakaia* q.v., pp. 65, 132, LANG, SMITH & THOMAS **58**.—*T. elegantula* p. 108 fig., HERITSCH **34**.

Thamnopora discussed, a synonym of *Pachypora* p. 133, LANG, SMITH & THOMAS **58**.

Thecia synonymous with *Angopora* pp. 17, 133, LANG, SMITH & THOMAS **58**.

Trachypora circulipora, PRADÁČOVÁ **77** (not seen).

Urceopora a heliolitid, genolectotype chosen *furcata* Ordovician Esthonia p. 137, LANG, SMITH & THOMAS **58**.

Vaughania possibly synonymous with *Leptopora* Winchell pp. 76, 137, LANG, SMITH & THOMAS **58**.

Vaughanites Paul (non Woodring) discussed, synonymous with *Syringopora* p. 137, LANG, SMITH & THOMAS **58**.

Vermipora not a coral but a polyzoan genus, discussed p. 138, but *niagarensis*, *fasciculatus*, *clausus* are corals p. 138, LANG, SMITH & THOMAS **58**.

Vetofistula a coenitid p. 139, LANG, SMITH & THOMAS **58**.

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Index of, and discussions on, Palaeozoic genera, and comments on some Recent and post-Palaeozoic hexacoral genera, LANG, SMITH & THOMAS **58**.

†*Acanthodes* Dybowski (non Agassiz) a synonym of *Tryplasma* p. 12, and of *Spiniferina* p. 121, LANG, SMITH & THOMAS **58**.

†*Acantholithus* Lindström (non Stimpson) re-named *Acidolites*, genolectotype chosen *lateseptatus* p. 13, LANG, SMITH & THOMAS **58**.

†*Acanthophyllum* discussed p. 13, synonymous with *Mesophylloides* p. 84, and *Rhoptophyllum* p. 115, LANG, SMITH & THOMAS **58**.—*A.* sp. cf. *minsfieldense* p. 152 fig., sp. p. 152 fig., sp. p. 153 fig., HILL **37**.—*A.* sp. p. 179 fig., HILL & JONES **39**.

†*Acervularia* discussed p. 13, *coronata* chosen as genolectotype of *Pseudoacervularia* p. 108, synonymous with *Arachnium*, *Diplophyllum*, *Favastraea*, and *Rhabdophyllum* p. 13, and probably with *Floscularia* p. 62, LANG, SMITH & THOMAS **58**.—*A. ananas* var. *ananas* p. 271 fig., STAINBROOK **93**.

†*Acidolites* **nom. n.** pro *Acantholithus* Lindström (non Stimpson), genolectotype chosen *lateseptatus* p. 13 ? Silurian Sweden, LANG, SMITH & THOMAS Index of Palaeozoic Coral Genera **1940.**

†*Acrophyllum* discussed p. 13, LANG, SMITH & THOMAS **58.**

Actinian classification, DELPHY **19.**

†*Actinocyathus* a synonym of *Lonsdaleia, crenulare* = *Lonsdaleia floriformis* p. 14, LANG, SMITH & THOMAS **58.**

†*Actinocystis* a synonym of *Spongophylloides, grayi* = *S. schumanni* p. 14, LANG, SMITH & THOMAS **58.**—*A. perfecta* probably an *Acanthophyllum* p. 179, HILL & JONES **39.**

Actinothoë californica **sp. n.** p. 217 fig. Gulf of California, CARLGREN Zoologica New York **25** 1940.

†*Aenigmatophyllum* emend. pro *Enymophyllum* p. 14, LANG, SMITH & THOMAS **58.**

†*Agassizia* Thomson (non Valenciennes) a synonym of *Carcinophyllum* p. 15, LANG, SMITH & THOMAS **58.**

Aiptasia lacerata commensal with *Cardium tuberculatum* p. 1 fig., ZIRPOLO **116.**

†*Albertia* a synonym of *Dibunophyllum* p. 15, LANG, SMITH & THOMAS **58.**

Alicia beebei **sp. n.** p. 211 Gulf of California, CARLGREN Zoologica New York **25** 1940.

†*Alleynia* a synonym of *Syringaxon* p. 15, LANG, SMITH & THOMAS **58.**

†*Allotropiophyllum* possibly synonymous with *Paralleynia* pp. 15, 96, LANG, SMITH & THOMAS **58.**

†*Amplexicarinia* emend. pro *Amplexocarinia* [sic] p. 16, LANG, SMITH & THOMAS **58.**

†Ampleximorphs discussed p. 390, HILL **38.**

†*Amplexi-Zaphrentis* discussed, genolectotype chosen *Zaphrentis bowerbanki* Thomson p. 16, congeneric with *Zaphrentoides* p. 17, LANG, SMITH & THOMAS **58.**

†*Amplexocarinia* — *vide Amplexicarinia.*—*A. smithi* p. 93 fig., HERITSCH **34.**

†"*Amplexus*" sp. aff. *ibicinus* p. 94 fig., sp. p. 95 fig., HERITSCH **34.**—*A. invaginatus* p. 108 fig., MERRIAM **67.**

†*Amygdalophyllum* congeneric with *Echigophyllum* pp. 17, 55, LANG, SMITH & THOMAS **58.**

Andwakia hozawai Uchida not an *Andwakia* p. 27, CARLGREN **12.**

†*Anthophyllum* discussed p. 17, LANG, SMITH & THOMAS **58.**

Anthopleura anneae **sp. n.** p. 1 Natal, *insignis* **sp. n.** p. 3 fig. South Africa, CARLGREN Ark. Zool. Stockholm **32** B 8 1940.

†*Antilloseris* ? *vaughani* **sp. n.** p. 374 fig. Eocene California, WELLS J. Wash. Acad. Sci. **30** 9 1940.

†*Aphyllum* a synonym of *Microplasma* pp. 18, 85, LANG, SMITH & THOMAS **58.**

†*Apolythophyllum* a synonym of *Tabulophyllum* p. 18, genolectotype chosen *normale* p. 18, LANG, SMITH & THOMAS **58.**

†*Arachnelasma* emend. pro *Arachnolasma* [sic] p. 19, LANG, SMITH & THOMAS **58.**

†*Arachniophyllum* emend. pro *Arachnophyllum* Dana [sic] p. 19, congeneric with *Nicholsonia* Schlüter pp. 19, 89, LANG, SMITH & THOMAS **58** –see next entry.

†*Arachniophyllum* Smyth (non Dana) a synonym of *Dibunophyllum* p. 19, LANG, SMITH & THOMAS **58.**

†*Arachnium* discussed p. 19, genolectotype chosen p. 19, a synonym of *Acervularia* p. 19, LANG, SMITH & THOMAS **58.**

†*Arachnolasma*—*vide Arachnelasma.*—*A. kasachstanicum* p. 91 fig., ILYINA **50.**

†*Arachnophyllum* — *vide Arachniophyllum* Dana.

†*Arcophyllum* a synonym of *Cosmophyllum* p. 20, LANG, SMITH & THOMAS **58.**

†*Aspasmophyllum* a possible synonym of *Pseudamplexus* pp. 156, 157, HILL **37.**

†*Aspidiophyllum* a synonym of *Dibunophyllum* p. 20, LANG, SMITH & THOMAS **58.**

Astrangia macrodentata **sp. n.** p. 195 fig. West Africa, THIEL Rev. Zool. Bot. afr. Tervueren **33** 1940.

Astrea [sic] *dipsacea* chosen as genolectotype of *Rhysmotes* p. 115, LANG, SMITH & THOMAS **58.**

†*Astrocoenia* sp. ind. p. 252 fig., RENZ **83.**

Astroites discussed p. 22, LANG, SMITH & THOMAS **58.**

†*Astrophyllum* genolectotype chosen *gerolsteinense* p. 23, LANG, SMITH & THOMAS **58.**

Athenomyaria **tribe n.** (family Nynantheae) p. 335, DELPHY Bull. Mus. Hist. nat. Paris (2) **11** 3 1939.

†*Aulacophyllum* Edwards & Haime congeneric with *Pinnatophyllum* pp. 23, 100, LANG, SMITH & THOMAS **58**—see next entry.

†*Aulacophyllum* Wedekind (non Edwards & Haime) discussed p. 402, HILL **38.**

†*Aulina* discussed p. 23, LANG, SMITH & THOMAS **58.**

†*Axinura canadensis* discussed p. 25, LANG, SMITH & THOMAS **58.**

†*Axophyllum* discussed p. 25, a synonym of *Lonsdaleia* or *Carcinophyllum* p. 25, LANG, SMITH & THOMAS **58.**

†*Baeophyllum* **gen. n.** p. 403, genotype (by author's original designation) *colligatum* **sp. n.** p. 404 fig. Silurian New South Wales, HILL Proc. Linnean Soc. N.S.W. **65** 1940.

†*Barbouria* **nom. n.** pro *Craterophyllum* Barbour (non Foerste) p. 26, genotype *verticillatum* p. 26 Carboniferous Nebraska, LANG, SMITH & THOMAS Index of Palaeozoic Coral Genera **1940.**

Bathyactis palifera p. 14 fig., HOFFMEISTER **41.**

†*Billingsastraea nevadensis* p. 104 fig., MERRIAM **67.**

†*Billingsia* a doubtful form p. 27, LANG, SMITH & THOMAS **58.**

†*Bolboporites* not a coral p. 27, LANG, SMITH & THOMAS **58.**

†*Bordenia savagei* **sp. n.** p. 391 fig. Silurian Missouri, BALL & GROVE Amer. Midl. Nat. Notre Dame **24** 1940.

†*Bothrophyllum* discussed p. 28, synonymous with *Pseudocaninia* pp. 28, 108, LANG, SMITH & THOMAS **58.**

†*Brachyelasma* **nom. n.** pro *Dybowskia* Wedekind (non Dall) p. 28, genotype *D. prima* p. 28 Silurian Norway, LANG, SMITH & THOMAS Index of Palaeozoic Coral Genera **1940.**

†*Bradyphyllum geinitzi* p. 82 fig., *nordenskiöldi* p. 85 fig., HERITSCH **34.**

Bunodactis stella discussed p. 26, CARLGREN **12.**

†*Calophyllum* synonymous with *Polycoelia* p. 30, LANG, SMITH & THOMAS **58.**

†*Campophyllum* discussed p. 30, LANG, SMITH & THOMAS **58.**

†*Campsactis* genolectotype chosen *canaliculata* p. 31, LANG, SMITH & THOMAS **58.**

†*Caninia* discussed p. 31, synonymous with *Cyathopsis* p. 44, LANG, SMITH & THOMAS **58.**—*C. hoeli* p. 57 fig., *kiaeri* p. 62 fig., var. *major* **var. n.** p. 64 fig., *holtedahli* **sp. n.** p. 66 fig., *schrenki* p. 68 fig., *intermedia* p. 70 fig., *volgensis* p. 71 fig., Upper Palaeozoic Spitzbergen, HERITSCH Ark. Zool. Stockholm **31** A 16 1940.—*C. spumosa* p. 88 fig., var. *tenuisepta* p. 88 fig., var. *partita* p. 89 fig., *ussowi* p. 90 fig., sp. no. 1 p. 91 fig., ILYINA **50.**

†*Caninophyllum* discussed p. 31, LANG, SMITH & THOMAS **58.**—*C. septentrionale* **sp. n.** p. 72 fig. Upper Palaeozoic Spitzbergen, HERITSCH Ark. Zool. Stockholm **31** A 16 1940.

†*Cantrillia* discussed p. 31, LANG, SMITH & THOMAS **58.**

†*Carcinophyllum* discussed p. 31, synonymous with *Agassizia* p. 15, and possibly with *Axophyllum* p. 25, LANG, SMITH & THOMAS **58.**—*C. reticulatum* p. 96 fig., ILYINA **50.**

Caryophyllia cyathus p. 14 fig., HOFFMEISTER **41.**

†*Centrephyllum*—*vide Centrophyllum.*

†*Centrophyllum* discussed p. 34, LANG, SMITH & THOMAS **58.**

†*Ceriophyllum* emend. pro *Keriophyllum* [sic], a synonym of *Heliophyllum* p. 35, LANG, SMITH & THOMAS **58.**

†*Cetophyllum* emend. pro *Ketophyllum* [sic] p. 35, probably synonymous with *Heterelasma* Ehlers pp. 35, 68, LANG, SMITH & THOMAS **58.**

†*Chlamydophyllum* discussed p. 160, ? *C.* sp. p. 161 fig., HILL **37**.

†*Cionelasma* emend. pro *Kionelasma* [sic], synonymous with *Streptelasma, mammiferum* a synonym of *S. corniculum* p. 36, LANG, SMITH & THOMAS **58**.

†*Cionophyllum* emend. pro *Kionophyllum* p. 37, LANG, SMITH & THOMAS **58**.

Cladocora discussed p. 37, LANG, SMITH & THOMAS **58**.

†*Clisaxophyllum* — *vide Clisiaxophyllum.*

†*Clisiaxophyllum* emend. pro *Clisaxophyllum* [sic], discussed p. 38, *coniseptum* a species of *Clisiophyllum* or *Dibunophyllum* p. 38, LANG, SMITH & THOMAS **58**.

†Clisiophyllid coral of Permian type p. 8 fig., HERITSCH **34**.

†*Clisiophyllites* a synonym of *Palaeosmilia* p. 38, LANG, SMITH & THOMAS **58**.

†*Codonophyllum* emend. pro *Kodonophyllum* [sic], discussed p. 39, synonymous with *Patrophontes* pp. 39, 96, LANG, SMITH & THOMAS **58**.

†*Columnaria* discussed p. 39, LANG SMITH & THOMAS **58**.

†*Conophyllum* synonymous with *Cystiphyllum* p. 40, LANG, SMITH & THOMAS **58**.

†*Cosmophyllum* discussed, probably synonymous with *Mesophylloides* and *Arcophyllum* p. 41, LANG, SMITH & THOMAS **58**.

†*Craspedophyllum* congeneric with *Eridophyllum* p. 41, LANG, SMITH & THOMAS **58**.

†*Craterophyllum* Foerste genolectotype chosen *vulcanius* p. 42, LANG, SMITH & THOMAS **58** –see next entry.

†*Craterophyllum* Barbour (non Foerste nec Tolmatchoff) re-named *Barbouria* p. 26, LANG, SMITH & THOMAS **58**.

†*Crepidophyllum* discussed, synonymous with *Eridophyllum* and *Craspedophyllum* p. 42, LANG, SMITH & THOMAS **58**.

Cribrinopsis williamsi **sp. n.** p. 24 fig. Alaska, CARLGREN J. Wash. Acad. Sci. **30** 1 1940.

†*Crinophyllum* a synonym of *Yassia* p. 42, LANG, SMITH & THOMAS **58**.

Culicia tenella p. 11 fig., *australiensis* **sp. n.** p. 12 fig. South Australia. HOFFMEISTER Biol. Res. Fishing Experiments F.I.S. "Endeavour" 1909–14 **6** (1) 1933.

†*Cyathaxonia* p. 43, *tortuosa* p. 81, LANG, SMITH & THOMAS **58**.

†*Cyathocarinia* genolectotype chosen *tuberculata* p. 43, LANG, SMITH & THOMAS **58**.

Cyathoceras cornu p. 9 fig., HOFFMEISTER **41**.

†*Cyathophyllum* discussed p. 44, *hexagonum* chosen as genolectotype of *Hexagonaria* p. 69, *nymphale* probably synonymous with *Naos pagoda* p. 87, *australe* chosen as genolectotype of *Palaeocyathus* p. 94, *turbinatum* chosen as genolectotype of *Peripaedium* p. 97, *marginatum* chosen as genolectotype of *Pterrorhiza* p. 111, *heterophyllum* chosen as genolectotype of *Rhopalophyllum* p. 115, *caespitosum* probably conspecific with *Schlüteria emsti* p. 118, *lamellosum* chosen as genolectotype of *Scoliophyllum* p. 118, LANG, SMITH & THOMAS **58**.—*C. australe* a species of *Streptelasma* p. 410, HILL **38**.—*C.* (*Palaeosmilia*) *yagovkini* p. 92 fig., ILYINA **50**.—"*C.*" *flexum* p. 78 fig., *C.* sp. p. 104 fig., MERRIAM **67**.

†*Cyathopsis* a synonym of *Caninia, cornu-bovis* lectotype chosen, a synonym of *Caninia cornucopiae* p. 44, LANG, SMITH & THOMAS **58**.

†*Cyclolites* discussed p. 45, LANG, SMITH & THOMAS **58**.

†*Cylindrophyllum* Simpson (non Yabe & Hayasaka) a synonym of *Disphyllum* p. 46, LANG, SMITH & THOMAS **58** –see next entry.

†*Cylindrophyllum* Yabe & Hayasaka (non Simpson) re-named *Yabeia* pp. 46, 140, LANG, SMITH & THOMAS **58**.

†*Cyphophyllum* emend. pro *Kyphophyllum* [sic], discussed p. 47, LANG, SMITH & THOMAS **58**.

†*Cystidendron* a phaceloid *Lithostrotion* p. 47, LANG, SMITH & THOMAS **58**.

†*Cystiphora* emend. pro *Cystophora* [sic] p. 47, LANG, SMITH & THOMAS **58**.

†*Cystiphorastraea* emend. pro *Cystophorastraea* [sic] a synonym of *Lonsdaleia* p. 47, LANG, SMITH & THOMAS **58**.

†*Cystiphorolites* a synonym of *Ptychophyllum* p. 48, LANG, SMITH & THOMAS **58**.

†*Cystiphrentis* emend. pro *Cystophrentis* [sic] p. 48, LANG, SMITH & THOMAS **58**.

†*Cystiphylloides* genolectotype chosen *kwangsiensis* p. 48, LANG, SMITH & THOMAS **58**.

†*Cystiphyllum* discussed pp. 48, 84. synonymous with *Conophyllum* p. 40, LANG, SMITH & THOMAS **58**.—*C.* cf. *bohemicum* p. 397 fig., HILL **38**.—"*C.*" sp. p. 183 fig., HILL & JONES **39**.

†*Cystistrotion* a cerioid *Lithostrotion* p. 48, LANG, SMITH & THOMAS **58**.

†*Cystistylus* emend. pro *Cystostylus* [sic] p. 48, LANG, SMITH & THOMAS **58**.

†*Cystophora—vide Cystiphora.—C. svalbardica* **sp. n.** p. 31 fig. Upper Palaeozoic Spitzbergen, HERITSCH Ark. Zool. Stockholm **31** A 16 1940.

†*Cystophorastraea—vide Cystiphorastraea.*

†*Cystophrentis—vide Cystiphrentis.*

†*Cystostylus—vide Cystistylus.*

†*Darwinia* Dybowski (non Bate) a synonym of *Arachniophyllum* Dana, lectotype of *speciosa* chosen p. 49, LANG, SMITH & THOMAS **58**.

†*Densiphyllum* discussed p. 49, LANG, SMITH & THOMAS **58**.

Desmophyllum cristagalli p. 8 fig., HOFFMEISTER **41**.

†*Desmophyllum* Wedekind (non Ehrenberg) probably a synonym of *Phaulactis* p. 50, LANG, SMITH & THOMAS **58**.—*D.* Wedekind (non Ehrenberg) discussed p. 402, HILL **38**.

†*Dibunophyllum* discussed p. 50, synonymous with *Arachniophyllum* p. 51, LANG, SMITH & THOMAS **58**.—*D. yüi* p. 6 fig., HERITSCH **34**.—*D.* **sp. n. nom. nud.** p. 136 Lower Carboniferous Moscow Basin, SOKOLOV C.R. Acad. Sci. Moscou n.s. **25** 2 1939.

†*Dinophyllum* synonymous with *Streptophyllum* pp. 52, 125, *involutum* a synonym of *Clisiophyllum hisingeri* p. 52, LANG, SMITH & THOMAS **58**.

†*Diphyphyllum* discussed p. 52, LANG, SMITH & THOMAS **58**.—*D. kirgisense* p. 93 fig., ILYINA **50**.—*D. siphonodendroniformis* **nom. nud.** p. 135 Lower Carboniferous Moscow Basin, SOKOLOV C.R. Acad. Sci. Moscou n.s. **25** 2 1939.

†*Diplastraea* discussed, genolectotype chosen *diffluens* p. 52, LANG, SMITH & THOMAS **58**.

†*Discotrochus californicus* **sp. n.** p. 375 fig. Eocene California, WELLS J. Wash. Acad. Sci. **30** 9 1940.

†*Disphyllum* discussed p. 53, LANG, SMITH & THOMAS **58**.—*D. praecox* **sp. n.** p. 398 fig. Silurian New South Wales, HILL Proc. Linnean Soc. N.S.W. **65** 1940.

†*Ditoechelasma* emend. pro *Ditoecholasma* [sic] p. 53, LANG, SMITH & THOMAS **58**.

†*Ditoecholasma—vide Ditoechelasma.—D. saffordi* **sp. n.** p. 389 fig. Silurian Missouri, BALL & GROVE Amer. Midl. Nat. Notre Dame **24** 1940.

†*Docophyllum* emend. pro *Dokophyllum* [sic] p. 54, LANG, SMITH & THOMAS **58**.

†*Dokophyllum—vide Docophyllum.*

†*Donacophyllum* probably synonymous with *Strombodes*, genolectotype chosen *middendorffi* p. 54 Ordovician Esthonia, LANG, SMITH & THOMAS **58**.

†*Donophyllum* a synonym of *Diphyphyllum*, genolectotype chosen *diphyphylloidium* p. 54, LANG, SMITH & THOMAS **58**.

†*Dybowskia* Wedekind (non Dall) renamed *Brachyelasma* p. 28, LANG, SMITH & THOMAS **58**.—*D.* a possible synonym of *Streptelasma* p. 165, HILL **37**.

†*Echigophyllum* a synonym of *Amygdalophyllum* pp. 17, 55, LANG, SMITH & THOMAS **58**.

†*Edaphophyllum* discussed p. 55, LANG, SMITH & THOMAS **58**.

Edwardsia arctica p. 21 fig., CARLGREN **12**.

Eloactis mazelii Uchida questionably the European species p. 27, CARLGREN **12**.

†*Endamplexus—vide Endoamplexus.*

†*Endoamplexus* emend. pro *Endamplexus* [sic] p. 56, LANG, SMITH & THOMAS **58**.

†*Endothecium* genolectotype chosen *apertum* p. 57, LANG, SMITH & THOMAS **58.**

†*Enteleiophyllum* genolectotype chosen *sundwigense* p. 57, LANG, SMITH & THOMAS **58.**

†*Entelophyllum* discussed, genolectotype chosen *articulatum* p. 57, synonymous with *Xylodes* pp. 58, 140, LANG, SMITH & THOMAS **58.**—*E. yassense* p. 412 fig., var. *patulum* p. 413 fig., *latum* **sp. n.** p. 413 fig. Silurian New South Wales, HILL Proc. Linnean Soc. N.S.W. **65** 1940.—*E. arborescens* **sp. n.** p. 188 fig. L. Devonian New South Wales, HILL & JONES Journ. Proc. roy. Soc. N.S.W., **74** 1940.

†*Enterelasma* emend. pro *Enterolasma* [sic] p. 58, LANG, SMITH & THOMAS **58.**

†*Enterolasma—vide Enterelasma.*

†*Enygmophyllum—vide Aenigmatophyllum.*

†*Eostrotion* discussed pp. 58, 81, possibly synonymous with *Lophophyllum* p. 81, LANG, SMITH & THOMAS **58.**

Epiactis ritteri not synonymous with *prolifera* p. 26, CARLGREN **12.**—*E. lewisi* **sp. n.** p. 23 fig. Arctic America, CARLGREN J. Wash. Acad. Sci. **30** 1 1940.

†*Eridophyllum* discussed p. 58, LANG, SMITH & THOMAS **58.**

†*Exostega* genolectotype chosen *tecta* p. 59, LANG, SMITH & THOMAS **58.**

†*Fascicularia* Dybowski (non Lamarck nec Edwards MS. in Busk) a synonym of *Phacelophyllum* p. 59, LANG, SMITH & THOMAS **58.**

†*Fasciphyllum* a synonym of *Columnaria, conglomeratum* p. 59, LANG, SMITH & THOMAS **58.**—*F.* aff. *conglomeratum* p. 155 fig., HILL **37.**

†*Favastraea* emend. pro *Favastrea* [sic], discussed p. 60, a synonym of *Acervularia* p. 60, LANG, SMITH & THOMAS **58.**

†*Favastrea—vide Favastraea.*

Favia sp. with polyps contracted and expanded pl. ii, YONGE **114.**

†*Fischerina* Stuckenberg (non Terquem) probably a synonym of *Lithostrotion* p. 61, LANG, SMITH & THOMAS **58.**

Flabellum pavoninum p. 2, var. *distinctum* p. 5, *japonicum* p. 7 fig., *tuthilli* **sp. n.** p. 7 fig. Great Australian Bight, HOFFMEISTER Biol. Res. Fishing Experiments F.I.S. "Endeavour" 1909–14 **6** (1) 1933.

†*Fletcheria* discussed p. 62, synonymous with *Pycnostylus* p. 112, LANG, SMITH & THOMAS **58.**

†*Floscularia* genolectotype chosen *luxurians,* probably a synonym of *Acervularia* p. 62, LANG, SMITH & THOMAS **58.**

Fungia an absolute synonym of *Fungites* Cuvier p. 62, LANG, SMITH & THOMAS **58.**—*F. actiniformis* var. *palawensis* p. 105 fig., ABE **1.**

†*Fungites* discussed, synonymous with *Fungia* p. 62, LANG, SMITH & THOMAS **58.**

†*Gerthia heintzi* **sp. n.** p. 78 fig. Upper Palaeozoic Spitzbergen, HERITSCH Ark. Zool. Stockholm **31** A 16 1940.

†*Glossophyllum* genolectotype chosen *dohmi,* LANG, SMITH & THOMAS **58.**

Goniastraea aspera p. 61 fig., MOTODA **71.**

†*Grewingkia* a possible synonym of *Streptelasma* p. 165, HILL **37.**

Halcampoides purpurea p. 22, CARLGREN **12.**

†*Hapsiphyllum svalbardicum* **sp. n.** p. 87 fig. Upper Palaeozoic Spitzbergen, sp. p. 90 fig., HERITSCH Ark. Zool. Stockholm **31** A 16 1940.

†*Hedströmophyllum* a synonym of *Holmophyllum* p. 397, HILL **38.**

†*Heliophyllum* discussed p. 66, *multiplex* chosen as genolectotype of *Uralinia* p. 137, LANG, SMITH & THOMAS **58.**

†*Hercophyllum* a synonym of *Phaulactis* p. 67, LANG, SMITH & THOMAS **58.**—*H.* discussed p. 402, *shearsbyi* p. 403 fig., HILL **38.**

†*Heterelasma* emend. pro *Heterolasma* [sic] Ehlers (non *Heterelasma* Girty) p. 67, probably synonymous with *Cetophyllum* p. 68, LANG, SMITH & THOMAS **58.**

†*Heterolasma—vide Heterelasma.*

†*Heterophyllia kitakamiensis* **sp. n.** p. 82 fig. Lower Carboniferous Japan, cf. *kitakamiensis* p. 83 fig., *granulata* p. 83 fig., *sedgwicki* p. 83 fig., *angulata* p. 83 fig., YABE & SUGIYAMA Trans. Palaeont. Soc. Japan **47** 557 1940.

†*Hexagonaria* genolectotype chosen *Cyathophyllum hexagonum* p. 69 M. Devonian Germany, synonymous with *Hexagoniophyllum* p. 69, *Polyphyllum* p. 103, and *Prismatophyllum* p. 104, LANG, SMITH & THOMAS **58**.

†*Hexagoniophyllum* a synonym of *Hexagonaria* p. 69, LANG, SMITH & THOMAS **58**.

†*Hexalasma—vide Hexelasma.*

†*Hexaphyllia elegans* p. 86 fig., YABE & SUGIYAMA **113**.

†*Hexelasma* emend. pro *Hexalasma* [sic] Soshkina (non *Hexelasma* Hoek) p. 70, LANG, SMITH & THOMAS **58**.

†*Holmophyllum* synonymous with *Hedströmophyllum* p. 397, *multiseptatum* **sp. n.** p. 397 fig. Silurian New South Wales, HILL Proc. Linnean Soc. N.S.W. **65** 1940.

†*Kazania* genolectotype chosen *elegantissima* p. 72, doubtfully a coral p. 72, LANG, SMITH & THOMAS **58**.

†*Kenophyllum—vide Cenophyllum.*

†*Keriophyllum—vide Ceriophyllum.*

†*Ketophyllum—vide Cetophyllum.*

†*Keyserlingophyllum* genolectotype chosen *obliquum* p. 72, LANG, SMITH & THOMAS **58**.

†*Kiaerophyllum* a possible synonym of *Streptelasma* p. 165, HILL **37**.

†*Kionelasma—vide Cionelasma.*

†*Kionophyllum—vide Cionophyllum.*

†*Kodonophyllum—vide Codonophyllum.*

†*Koninckophyllum* discussed p. 73, LANG, SMITH & THOMAS **58**.

†*Kueichouphyllum* discussed, synonymous with *Yabeella* p. 73, LANG, SMITH & THOMAS **58**.

†*Kyphophyllum—vide Cyphophyllum.*

†*Laccophyllum* a synonym of *Syringaxon* p. 74, LANG, SMITH & THOMAS **58**.—*L. petaloides* **sp. n.** p. 385 fig. Silurian Missouri, BALL & GROVE Amer. Midl. Nat. Notre Dame **24** 1940.

†*Lamellipora* emend. pro *Lamellopora* [sic], possibly a stromatoporoid p. 74, LANG, SMITH & THOMAS **58**.

†*Lamellopora—vide Lamellipora.*

†*Lamprophyllum* discussed p. 402, HILL **38**.

†*Lasmocyathus* a synonym of *Lithostrotion, aranea* p. 75, LANG, SMITH & THOMAS **58**.

†*Lecanophyllum* emend. pro *Lekanophyllum* [sic] p. 75, genolectotype chosen *punctatum* p. 75, LANG, SMITH & THOMAS **58**.

†*Legnophyllum* genolectotype chosen *cylindricum* p. 76, LANG, SMITH & THOMAS **58**.

†*Lekanophyllum—vide Lecanophyllum.*

†*Leptoinophyllum* synonymous with *Stenophyllum* pp. 76, 123, LANG, SMITH & THOMAS **58**.

Lirrevia **nom. n.** pro *Verrillia* Andres (non Stearns) p. 269, DELPHY Bull. Mus. Hist. nat. Paris (2) **11** 2 1939.

†*Lithodrumus—vide Lithodrymus.*

†*Lithodrymus* emend. pro *Lithodrumus* [sic] p. 78, LANG, SMITH & THOMAS **58**.

†*Lithophyllum* emend. pro *Lythophyllum* [sic] p. 78, LANG, SMITH & THOMAS, **58**.

†*Lithostroma* a synonym of *Columnaria* p. 78, LANG, SMITH & THOMAS **58**.

†*Lithostrotion* discussed, synonymy given p. 78, LANG, SMITH & THOMAS **58**.—*L. stylaxis* p. 29 fig., HERITSCH **34**.—*L. portlocki* p. 93 fig., *rossicum* p. 94 fig., *priscum* **sp. n.** p. 95 fig. Lower Carboniferous Kazakhstan, ILYINA Bull. Soc. Nat. Moscou Sect. Géol. n.s. **47** 1 1939.—*L. janischewskii* **nom. nud.** p. 135 Lower Carboniferous Moscow Basin, SOKOLOV C.R. Acad. Sci. Moscou n.s. **25** 2 1939.

†*Lithostrotionella flexuosa* p. 30 fig., HERITSCH **34**.

†*Loepophyllum* emend. pro *Loipophyllum* [sic] p. 79, LANG, SMITH & THOMAS **58**.

†*Loipophyllum—vide Loepophyllum.*

†*Lonsdaleia* discussed, synonymous with *Actinocyathus, Axophyllum, Cystiphorastraea, Polythecalis, Protolonsdaleia,* and *Stylidophyllum* p. 79, LANG, SMITH & THOMAS **58**.—*L. papillata* var. *minor* **nom. nud.** p. 135 Lower Carboniferous Moscow Basin, SOKOLOV C.R. Acad. Sci. Moscou n.s. **25** 2 1939.

†*Lonsdaleiastraea* a synonym of *Polythecalis* p. 79, LANG, SMITH & THOMAS **58**.

†*Lophelasma* emend. pro *Lopholasma* [sic], discussed p. 80, synonymous with *Stereoelasma* and *Metriophyllum* p. 80, LANG, SMITH & THOMAS **58.**

†*Lopholasma—vide Lophelasma.*

†*Lophophyllidium* discussed p. 80, LANG, SMITH & THOMAS **58.**

†*Lophophyllum* discussed, *konincki* p. 81, LANG, SMITH & THOMAS **58.**—*L.* **sp. n. nom. nud.** p. 136 Lower Carboniferous Moscow Basin, SOKOLOV C.R. Acad. Sci. Moscou n.s. **25** 2 1939.

†*Lycocystiphyllum* emend. pro *Lykocystiphyllum* [sic] p. 81, genolectotype chosen *gracile*, a synonym of *Lycophyllum* and of *Phaulactis* p. 82, LANG, SMITH & THOMAS **58.**—*L.* discussed p. 402, HILL **38.**

†*Lycophyllum* emend. pro *Lykophyllum* [sic], a synonym of *Phaulactis* p. 82, LANG, SMITH & THOMAS **58.**—*L.* discussed p. 402, HILL **38.**

†*Lykocystiphyllum—vide Lycocystiphyllum.*

†*Lykophyllum—vide Lycophyllum.*

†*Lythophyllum—vide Lithophyllum.*

†*Lytvelasma* emend. pro *Lytvolasma* [sic] p. 82, LANG, SMITH & THOMAS **58.**

†*Lytvolasma—vide Lytvelasma.*

†*Madrepora stellaris* designated genolectotype of *Strombastraea* p. 126, LANG, SMITH & THOMAS **58.**

†*Madreporites articulatus* chosen genolectotype of *Entelophyllum* p. 57, LANG, SMITH & THOMAS **58.**

†*Medusaephyllum* a synonym of *Phillipsastraea, ibergense* p. 83, LANG, SMITH & THOMAS **58.**

†*Mesactis* discussed p. 402, HILL **38.**

†*Mesophylloides* synonymous with *Acanthophyllum* p. 84 and *Rhopalophyllum* p. 115, LANG, SMITH & THOMAS **58.**

†*Mesophyllum* Schlüter (non Hahn) discussed p. 84, LANG, SMITH & THOMAS **58.**

†*Metriophyllum* discussed p. 84, synonymous with *Lophelasma* and *Stereoelasma* p. 80, lectotype of *bouchardi* chosen p. 84, LANG, SMITH & THOMAS **58.**

†*Microplasma* a synonym of *Aphyllum* pp. 18, 85, LANG, SMITH & THOMAS, **58.**

Milne-Edwardsia akkeshi Uchida either a *Drillactis* or a new genus p. 27, CARLGREN **12.**

Montipora sp. growth-type in shallow water pl. iv, YONGE **114.**

†*Mucophyllum—vide Mycophyllum.*—*M.* a possible synonym of *Pseudamplexus* pp. 156, 157, HILL **37.**

†*Mycophyllum* emend. pro *Mucophyllum* [sic] p. 87, LANG, SMITH & THOMAS **58.**—*M.* discussed, ? synonymous with *Aspasmophyllum* p. 399, *crateroides* p. 400 fig., *liliiforme* p. 401 fig., HILL **38.**

†*Naos pagoda* probably a synonym of *Cyathophyllum nymphale* p. 87, LANG, SMITH & THOMAS **58.**

†*Nardophyllum* synonymous with *Plagiophyllum* p. 87, LANG, SMITH & THOMAS **58.**

Nemanthidae **fam. n.** p. 112, CARLGREN Zoologica New York **25** 1940.

Nemanthus **gen. n.** (family Nemanthidae) p. 212, genotype (by author's designation) *Sagartia nitida* pp.212, 214 fig., *californicus* **sp. n.** p. 215 fig. Gulf of California, CARLGREN Zoologica New York **25** 1940.

†*Nemistium* derived from *Lithostrotion* p. 88, LANG, SMITH & THOMAS **58.**

†*Neocystiphyllum* discussed p. 402, HILL **38.**

†*Neokoninckophyllum* genolectotype chosen *tanaicum* p. 88, LANG, SMITH & THOMAS **58.**

†*Nicholsonia* Schlüter (non Kiär nec Počta) synonymous with *Arachniophyllum* Dana, genolectotype chosen *perampla* p. 89, LANG, SMITH & THOMAS **58**—see next entry.

†*Nicholsonia* Počta (non Schlüter nec Kiär) discussed p. 89, LANG, SMITH & THOMAS **58.**

Notophyllia etheridgi **sp. n.** p. 13 fig. New South Wales, HOFFMEISTER Biol. Res. Fishing Experiments F.I.S. "Endeavour" 1909–14 **6** (1) 1933.

Odontocyathus sexradii p. 10 fig., HOFFMEISTER **41.**

†*Omphyma* discussed p. 90, LANG, SMITH & THOMAS **58.**

†*Orionastraea breviseptata* p. 10 fig., *solida* p. 14 fig., HERITSCH **34.**

†*Orthophyllum* genolectotype chosen *bifidum* p. 91 L. Devonian Bohemia, Lang, Smith & Thomas **58**.

†*Pachyphyllum* discussed p. 92, Lang, Smith & Thomas **58**.

†*Palaeastraea* emend. pro *Palastraea* [sic], a synonym of *Palaeosmilia, carbonaria* a synonym of *Palaeosmilia regium* p. 93, Lang, Smith & Thomas **58**.

†*Palaeocyathus* genolectotype chosen *australe* p. 94, Lang, Smith & Thomas **58**.—A synonym of *Streptelasma* p. 410, Hill **38**.

†*Palaeocyclus* a synonym of *Porpites* Schlotheim p. 94, Lang, Smith & Thomas **58**.

†*Palaeosmilia* discussed p. 95, synonymous with *Strephodes* p. 125, *murchisoni* provenance p. 95, Lang, Smith & Thomas **58**.

†*Palastraea—vide Palaeastraea.*

Palythoa margaritae **sp. n** p. 6 fig. Natal, Carlgren Ark. Zool. Stockholm **32** B 8 1940.

†*Papiliophyllum elegantulum* p. 104 fig., Merriam **67**.

†*Paralithophyllum* emend. pro *Paralythophyllum* [sic] p. 95, Lang, Smith & Thomas **58**.

†*Paralleynia* discussed p. 96, Lang, Smith & Thomas **58**.

†*Paralythophyllum—vide Paralithophyllum.*

Paranthus sociatus **sp. n.** p. 225 fig. Japan, Uchida Annot. zool. jap. **19** 1940.

†*Patrophontes* a synonym of *Codonophyllum* pp. 39, 96, Lang, Smith & Thomas **58**.

Peachia parasitica p. 22, Carlgren **12**.

†*Peripaedium* genolectotype chosen *Cyathophyllum turbinatum* p. 97, Lang, Smith & Thomas **58**.

†*Petalaxis* a synonym of *Nematophyllum* p. 97, Lang, Smith & Thomas **58**.—*P. timanicus* p. 18 fig., *kunthi* p. 25 fig., *grandis* **sp. n.** p. 27 fig. Upper Palaeozoic Spitzbergen, Heritsch Ark. Zool. Stockholm **31** A 16 1940.

†*Pexiphyllum* genolectotype chosen *rectum* p. 98 U. Devonian Germany, Lang, Smith & Thomas **58**.

†*Phacellophyllum — vide Phacelophyllum.*

†*Phacelophyllum* emend. pro *Phacellophyllum* [sic] p. 98, synonymous with *Fascicularia* Dybowski pp. 59, 98, Lang, Smith & Thomas **58**.

†*Phaulactis* discussed p. 98, synonymous with *Lycocystiphyllum* and *Lycophyllum* p. 82, Lang, Smith & Thomas **58**.—*P.* discussed p. 402, Hill **38**.

Phellia decora a *Telmatactis* or another genus p. 27, Carlgren **12**.

†*Phillipsastraea* discussed p. 99, synonymous with *Medusaephyllum* p. 83, Lang, Smith & Thomas **58**.—*P. walli* genotype of *Zenophila* p. 414, Hill **38**.—*P.* sp. a p. 106 fig., *P.* ("*Pachyphyllum*") sp. b p. 106 fig., *P.* sp. p. 106 fig., *P.* ("*Pachyphyllum*") sp. c p. 107 fig., *P.* ("*Pachyphyllum*") sp. d p. 107 fig., *P.* sp. e p. 107 fig., *P* sp. f p. 107 fig., *P.* ("*Pachyphyllum*") sp. g p. 107 fig., Merriam **67**.

†*Pholadophyllum* emend. pro *Pholidophyllum* [sic], a synonym of *Tryplasma* p. 99, Lang, Smith & Thomas **58**.

†*Pholidophyllum—vide Pholadophyllum.*

†*Pinnatophyllum* discussed, congeneric with *Aulacophyllum* p. 100, Lang, Smith & Thomas **58**.

†*Placophyllum tabulatum* p. 100, Lang, Smith & Thomas **58**.

†*Plagiophyllum* a synonym of *Nardophyllum*, genolectotype chosen *excentricum* p. 100 M. Devonian Germany, Lang, Smith & Thomas **58**.

†*Plasmophyllum* discussed p. 101, Lang, Smith & Thomas **58**.

Plastaphellia **nom. n.** pro *Phelliopsis* Verrill (non Fischer) p. 269, Delphy Bull. Mus. Hist. nat. Paris (2) **11** 2 1939.

†*Platyphyllum* Lindström (non Audinet-Serville) re-named *Teratophyllum* pp. 102, 132, Lang, Smith & Thomas **58**.

†*Polycoelia* King (non de Fromentel nec Fuhrmann) synonymous with *Calophyllum* p. 102, Lang, Smith & Thomas **58**.

†*Polydilasma—vide Polydiselasma.*

†*Polydiselasma* emend. pro *Polydilasma* [sic], discussed p. 102, Lang, Smith & Thomas **58**.

Polyphyllum de Fromentel (non Blanchard) a synonym of *Hexagonaria* p. 103, Lang, Smith & Thomas **58.**

†*Polythecalis* discussed p. 103, synonymous with *Lonsdaleiastraea* p. 79 and with *Protolonsdaleiastraea* p. 107, Lang, Smith & Thomas **58.**

†*Porpites* genolectotype chosen *haemisphericus* p. 104 Silurian Sweden, synonymous with *Palaeocyclus* p. 104, *haemisphaericus* lectotype chosen p. 104, Lang, Smith & Thomas **58.**

†*Prisciturben* restricted p. 104, Lang, Smith & Thomas **58.**

†*Prismatophyllum* discussed, a synonym of *Hexagonaria* p. 104, Lang, Smith & Thomas **58.**—*P. latum* p. 153 fig., *densum* p. 154 fig., **spp. n.** M. Devonian Queensland, Hill Proc. roy. Soc. Q'sland **51** 9 1940.—*P. fisherae* **sp. n.** p. 78 fig. Devonian Nevada, sp. b. p. 106 fig., "*P.*" *kirki* p. 108 fig., ? *P.* cf. *kirki* p. 108 fig., Merriam Spec. Pap. Geol. Soc. Amer. **25** 1940.—*P. prisma* p. 273 fig., *cinctum* **sp. n.** p. 275 fig. Devonian Indiana, *cedarensis* p. 276 fig., *thomasi* p. 278 fig., *parvulum* p. 279 fig., *brandonensis* p. 279 fig., *iowensis* p. 280 fig., *multicinctum* p. 282 fig., *lativentrum* p. 283 fig., **spp. n.** Devonian Iowa, *profundum* p. 281 fig., Stainbrook J. Paleont. Menasha Wis. **14** 3 1940.

†*Prosmilia* genolectotype chosen *cyathophylloides* p. 105, Lang, Smith & Thomas **58.**

†*Protaeropoma—vide Protaraeopoma.*

†*Protaraeopoma* emend. pro *Protaeropoma* [sic] p. 106, Lang, Smith & Thomas **58.**

†*Protocyathophyllum* validity discussed p. 106, Lang, Smith & Thomas **58.**

†*Protodibunophyllum* genolectotype chosen *simplex* p. 106 L. Carboniferous Russia, Lang, Smith & Thomas **58.**

†*Protolonsdaleia* emend. pro *Protolonsdalia* [sic] p. 106, genolectotype chosen *carcinnophyllosa* p. 107 L. Carboniferous Russia, Lang, Smith & Thomas **58.**

†*Protolonsdaleiastraea* a synonym of *Polythecalis* p. 107, Lang, Smith & Thomas **58.**

Protolonsdalia—vide Protolonsdaleia.

†*Pseliophyllum* emend. pro *Pselophyllum* [sic] p. 107, Lang, Smith & Thomas **58.**

†*Pselophyllum—vide Pseliophyllum.*—*P.* genolectotype chosen *bohemicum* p. 158, a synonym of *Pseudamplexus* p. 158, Hill **37.**

†*Pseudamplexus* discussed p. 157, sp. p. 158 fig., Hill **37.**—*P. princeps* p. 185 fig., Hill & Jones **39.**

†*Pseudoacervularia* a synonym of *Phillipsastraea*, genolectotype *Acervularia coronata* p. 108, Lang, Smith & Thomas **58.**

†*Pseudocaninia* synonymous with *Bothrophyllum* p. 108, Lang, Smith & Thomas **58.**

†*Pseudocosmophyllum* genolectotype chosen *geigeri* p. 109, Lang, Smith & Thomas **58.**

†*Pseudomphyma* a possible synonym of *Pseudamplexus* pp. 156, 158, Hill **37.**

†*Pseudoptenophyllum* genoholotype *Cyathophyllum helianthoides* mut. *philocrina* discussed p. 109, Lang, Smith & Thomas **58.**

†*Pseudozonophyllum* genolectotype chosen *halli* p. 110, Lang, Smith & Thomas **58.**

†*Ptenophyllum* genolectotype chosen *praematurum* p. 110, Lang, Smith & Thomas **58.**

†*Pterrorhiza* genolectotype chosen *marginatum* p. 111, Lang, Smith & Thomas **58.**

†*Ptilophyllum* Smith & Tremberth (non Guérin–Méneville) re-named *Weissermelia* pp. 111, 139, Lang, Smith & Thomas **58.**

†*Ptychophyllum* discussed p. 111, Lang, Smith & Thomas **58.**

†*Pycnactis mitratus* p. 112, Lang, Smith & Thomas **58.**—*P.* discussed p. 402, Hill **38.**

†*Pycnostylus* a synonym of *Fletcheria* p. 112, Lang, Smith & Thomas **58.**—*P.* discussed pp. 390, 391, *congregationis* p. 391 fig., *dendroides* p. 392 fig., ? *lonsdalei* p. 393, Hill **38.**

†*Radiastraea arachne* p. 105 fig., Merriam **67.**

†*Regmaphyllum — vide Rhegmatophyllum.*

†*Retiophyllum* discussed, *mirum* p. 113, Lang, Smith & Thomas **58.**

†*Rhabdophyllum* discussed p. 114, a synonym of *Acervularia* p. 114, Lang, Smith & Thomas **58.**

†*Rhegmaphyllum* — *vide Rhegmatophyllum.*

†*Rhegmatophyllum* emend. pro *Rhegmaphyllum* [sic] and *Regmaphyllum* [sic], discussed p. 114, *turbinatum* = *Zaphrentis conulus* p. 114, LANG, SMITH & THOMAS **58.**

†*Rhizophyllum* synonymous with *Xenocyathellus* p. 139, LANG, SMITH & THOMAS **58.**—*R. interpunctatum* p. 394 fig., *australe* discussed p. 395, *robustum* p. 396 fig., *yassense* p. 396 fig., HILL **38.** —*R. enorme* p. 182 fig., HILL & JONES **39.**

Rhodactinia validity discussed p. 270, DELPHY **19.**

†*Rhodophyllum* validity discussed pp. 50, 115, LANG, SMITH & THOMAS **58.**—*R. dubium* p. 96 fig., ILYINA **50.**

†*Rhopalelasma* emend. pro *Rhopalollasma* [sic] p. 115, LANG, SMITH & THOMAS **58.**

†*Rhopalolasma*—*vide Rhopalelasma.*

†*Rhopalophyllum* a synonym of *Acanthophyllum*, genolectotype chosen *Cyathophyllum heterophyllum* p. 115, LANG, SMITH & THOMAS **58.**

Rhysmotes a synonym of *Favia*, genolectotype chosen *Astrea* [sic] *dipsacea* p. 115, LANG, SMITH & THOMAS **58.**

Sagartia nitida the genotype of *Nemanthus* pp. 212, 214 fig., CARLGREN **13.**

†*Schistotoechelasma* emend. pro *Schistotoecholasma* [sic], a synonym of *Eridophyllum, typicalis* p. 117, LANG, SMITH & THOMAS **58.**

†*Schistotoecholasma* — *vide Schistotoechelasma.*

†*Schizophyllum* Wedekind pre-occ. by *Schizophyllum* Verhoeff p. 117, discussed p. 118, LANG, SMITH & THOMAS **58.**

†*Schlüteria* Wedekind (non Fritsch) discussed, congeneric with *Disphyllum, emsti* probably conspecific with *Cyathophyllum caespitosum* p. 118, LANG, SMITH & THOMAS **58.**

†*Scoliophyllum* emend. pro *Skoliophyllum* [sic], genolectotype chosen *Cyathophyllum lamellosum* p. 118, LANG, SMITH & THOMAS **58.**

†*Semaeophyllum* emend. pro *Semaiophyllum* [sic], discussed p. 118, LANG, SMITH & THOMAS **58.**—*S.* discussed p. 402, HILL **38.**

†*Semaiophyllum*—*vide Semaeophyllum.*

†*Sinophyllum* discussed p. 119, LANG, SMITH & THOMAS **58.**

†*Siphonodendron* a synonym of *Lithostrotion* p. 119, LANG, SMITH & THOMAS **58.**—*S.* sp. aff. *annulatum* p. 33 fig., HERITSCH **34.**

†*Siphonophyllia calophylloides* p. 37 fig., *nikitini* pp. 48, 54 fig., *ruprechti* p. 55 fig., *lonsdalei* p. 56 fig., HERITSCH **34.**

†*Skoliophyllum*—*vide Scoliophyllum.*

Solenosmilia variabilis p. 14 fig., HOFFMEISTER **41.**

†*Spiniferina* synonymous with *Acanthodes* Dybowski pp. 12, 121 and probably with *Tryplasma* p. 121, LANG, SMITH & THOMAS **58.**

†*Spongophylloides* synonymous with *Actinocystis* pp. 14, 121, LANG, SMITH & THOMAS **58.**—*S.* (?) *thomasae* **sp. n.** p. 181 fig. L. Devonian New South Wales, HILL & JONES Journ. Proc. roy. Soc. N.S.W. **74** 1940.

†*Spongophyllum halysitoides* p. 162, var. *minor* **var. n.** p. 162 fig. M. Devonian Queensland, HILL Proc. roy. Soc. Q'sland **51** 9 1940.—*S. shearsbii* p. 408 fig., *spongophylloides* p. 408 fig., HILL **38.**

†*Stauria* discussed, lectotype of *astreiformis* chosen, at most a sub-genus of *Columnaria* p. 122, LANG, SMITH & THOMAS **58.**—*S.* sp. p. 49 fig., TING **105.**

†*Stenophyllum* a synonym of *Leptoinophyllum* p. 123, LANG, SMITH & THOMAS **58.**

†*Stereoelasma* emend. pro *Stereolasma* [sic] p. 123, congeneric with *Lophelasma* and *Metriophyllum* p. 123, *rectum* conspecific with *Lophelasma carinatum* p. 123, LANG, SMITH & THOMAS **58.**

†*Stereolasma*—*vide Stereoelasma.*

†*Stereophyllum* Schlüter synonymy discussed p. 123, LANG, SMITH & THOMAS **58.**

Stomphia coccinea p. 26, CARLGREN **12.**

†*Storthygophyllum* synonymous with *Xiphelasma* p. 124, lectotype of *megalocystis* chosen p. 124, LANG, SMITH & THOMAS **58.**

†*Stortophyllum* genolectotype chosen *simplex* p. 124, a synonym of *Tryplasma* p. 124, LANG, SMITH & THOMAS **58**.

†*Strephodes* lectotype of *multilamellatum* chosen p. 125, a synonym of *Palaeosmilia* p. 125, LANG, SMITH & THOMAS **58**.

†*Streptastraea* a synonym of *Phillipsastraea* p. 125, LANG, SMITH & THOMAS **58**.

†*Streptelasma* discussed p. 125, LANG, SMITH & THOMAS **58**.—*S.* possibly synonymous with *Kiaerophyllum* p. 165, sp. p. 165 fig., HILL **37**.—*S. australe* p. 410 fig., HILL **38**.

†Streptelasmoid sp. a p. 104 fig., MERRIAM **67**.

†*Streptophyllum* genolectotype chosen *hisingeri* p. 125, a synonym of *Dinophyllum* p. 125, LANG, SMITH & THOMAS **58**.

†*Strobilasma—vide Strobilelasma.*

†*Strobilelasma* emend. pro *Strobilasma* [sic] p. 126, LANG, SMITH & THOMAS **58**.

†*Strombastraea* discussed, genolectotype chosen *Madrepora stellaris*, synonymous with *Strombodes* p. 126, LANG, SMITH & THOMAS **58**.

†*Strombodes* discussed p. 126, synonymous with *Donacophyllum* pp. 54, 127, and with *Strombastraea* pp. 126, 127, LANG, SMITH & THOMAS **58**.

†*Stylastraea* discussed p. 127, LANG, SMITH & THOMAS **58**.

†*Stylaxis* genolectotype chosen *flemingi*, synonymous with *Lithostrotion* p. 127, LANG, SMITH & THOMAS **58**.

†*Stylidophyllum* congeneric with *Lonsdaleia* p. 127, LANG, SMITH & THOMAS **58**.

†*Stylostrotion* a synonym of *Lithostrotion* p. 128, LANG, SMITH & THOMAS **58**.

†*Sublonsdaleia* emend. pro *Sublonsdalia* [sic] p. 128, LANG, SMITH & THOMAS **58**.

†*Sublonsdalia—vide Sublonsdaleia.*

†*Sychnoelasma* **nom. n.** pro *Verneuilia* Stuckenberg (non Hall & Clarke) p. 128, genotype *V. urbanowitschi* Carboniferous Russia p. 128, LANG, SMITH & THOMAS Index of Palaeozoic Coral Genera **1940**.

†*Sycidium* probably not a coral but a charaphyte plant p. 128, LANG, SMITH & THOMAS **58**.

†*Synaptophyllum* a synonym of *Disphyllum* p. 129, LANG, SMITH & THOMAS **58**.

†*Syringaxon* synonymous with *Laccophyllum* and *Alleynia* p. 129, LANG, SMITH & THOMAS **58**.

†*Tabulophyllum* synonymous with *Apolythophyllum* p. 130, LANG, SMITH & THOMAS **58**.—*T. nevadense* p. 106 fig., MERRIAM **67**.

†*Tachyelasma* emend. pro *Tachylasma* [sic] p. 130, possibly a synonym of *Ufimia* p. 131, LANG, SMITH & THOMAS **58**.

†*Tachylasma—vide Tachyelasma.*—*T. sophiae* **sp. n.** p. 86 fig. Upper Palaeozoic Spitzbergen, HERITSCH Ark. Zool. Stockholm **31** A 16 1940.

Telmatactis—vide Phellia decora.

†*Temeniophyllum* emend. pro *Temnophyllum* [sic] p. 131, genolectotype chosen *latum* p. 132, LANG, SMITH & THOMAS **58**.

†*Temnophyllum — vide Temeniophyllum.*

†*Teratophyllum* **nom. n.** pro *Platyphyllum* Lindström (non Audinet-Serville), genotype *Platyphyllum sinense* Silurian China p. 132, LANG, SMITH & THOMAS Index of Palaeozoic Coral Genera **1940**.

†*Timania schmidti* p. 74 fig., HERITSCH **34**.

†*Trematophyllum* genolectotype chosen *schulzi* Lower Devonian Germany p. 135, LANG, SMITH & THOMAS **58**.

†*Triplophyllum* possibly synonymous with *Zaphrentoides* pp. 135, 141, LANG, SMITH & THOMAS **58**.

†*Tryplasma* discussed p. 135, synonymous with *Acanthodes* Dybowski pp. 12, 135, with *Pholadophyllum* pp. 99, 135, *Stortophyllum* pp. 124, 135, and possibly *Tyrrellia* Parks pp. 135, 136, LANG, SMITH & THOMAS **58**.—*T. lonsdalei* p. 406 fig., *delicatulum* p. 407 fig., *derrengullenense* p. 407 fig., HILL **38**.—*T. columnare* p. 187 fig., HILL & JONES **39**.

Turbinaria sp. with polyps expanded pl. i, YONGE **114**.

†*Turbinolia turbinata* partim = *Rhegmatophyllum turbinatum* p. 114, LANG, SMITH & THOMAS **58**.

†*Tyria* Scheffen (non Huebner) genolectotype chosen *inserta*, a synonym of *Dalmanophyllum* p. 136, LANG, SMITH & THOMAS **58**.

†*Tyrrellia* possibly a synonym of *Tryplasma* p. 136, LANG, SMITH & THOMAS **58**.

†*Ufimia* possibly synonymous with *Tachyelasma* pp. 131, 136, LANG, SMITH & THOMAS **58**.

†*Uralinia* genolectotype chosen *Heliophyllum multiplex* p. 137, LANG, SMITH & THOMAS **58**.

†*Verneuilia* Stuckenberg (non Hall & Clarke) re-named *Sychnoelasma* q.v., pp. 128, 138, LANG, SMITH & THOMAS **58**.

†*Weissermelia* **nom. n.** pro *Ptilophyllum* Smith & Tremberth (non Guérin-Méneville) p. 139, genotype *P. lindströmi* p. 139 Silurian Sweden, LANG, SMITH & THOMAS Index of Palaeozoic Coral Genera **1940**.

†*Xenocyathellus* a synonym of *Rhizophyllum* p. 139, LANG, SMITH & THOMAS **58**.

†*Xiphelasma* possibly a synonym of *Storthygophyllum* p. 139, LANG, SMITH & THOMAS **58**.

†*Xylodes* an absolute synonym of *Entelophyllum* p. 140, LANG, SMITH & THOMAS **58**.

†*Xystriphyllum dunstani* p. 163 fig., *insigne* **sp. n.** p. 164 fig. M. Devonian Queensland, HILL Proc. roy. Soc. Q'sland **51** (9) 1940.

†*Yabeella* a synonym of *Kueichouphyllum* pp. 73, 140, LANG, SMITH & THOMAS **58**.

†*Yabeia* **nom. n.** pro *Cylindrophyllum* Yabe & Hayasaka (non Simpson) p. 140, genotype *C. simplex* p. 140 Devonian China, LANG, SMITH & THOMAS Index of Palaeozoic Coral Genera **1940**.

†*Yassia* synonymous with *Crinophyllum* p. 140, LANG, SMITH & THOMAS **58**.—*Y. enormis* p. 409 fig., HILL **38**.

†*Zaphrentis* discussed p. 141, *conulus* = *Rhegmatophyllum turbinatum* = *Turbinolia turbinata* partim p. 114, LANG, SMITH & THOMAS **58**.—*Z. delanouei* p. 40 fig., cf. *omaliusi* var. *densa* p. 40, GORSKY & TIMOFEEVA **32**.

†Zaphrentoid sp. cf. *Papiliophyllum* p. 104 fig., sp. a p. 108 fig., MERRIAM **67**.

†*Zaphrentoides* discussed, synonymous with *Amplexi-Zaphrentis* pp. 17, 141, and possibly with *Triplophyllum* pp. 135, 141, LANG, SMITH & THOMAS **58**.—*Z. panderi* p. 91 fig., sp. p. 92 fig., HERITSCH **34**.

†*Zelaeophyllum* emend. pro *Zeliaphyllum* [sic] p. 141, LANG, SMITH & THOMAS **58**.

†*Zeliaphyllum*—*vide Zelaeophyllum*.

†*Zenophila* **gen. n.** p. 414, genotype (by author's original designation) *Phillipsastraea walli* p. 414 fig. Silurian New South Wales, HILL Proc. Linnean Soc. N.S.W. **65** 1940.

†*Zonodigonophyllum* genolectotype chosen *primum* p. 142, LANG, SMITH & THOMAS **58**.

†*Zonophyllum* genolectotype chosen *duplicatum* p. 142, LANG, SMITH & THOMAS **58**.

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V. ECHINODERMA

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A. G. BRIGHTON, M.A.

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Acodontaster elongatus forma *ceramoideus* **forma n.** Southern Ocean, FISHER Discovery Repts. Cambridge **20** p. 113 pl. i figs. 3–6; *A. conspicuus* p. 113, *elongatus* p. 109 with forma *granuliferus* p. 112 pl. i figs. 1–2; *A. hodgsoni* p. 115, *waitei* p. 114, ID.

Anasterias antarctica p. 233 pl. xix fig. 1, *conferta* p. 239 pl. xix fig. 5, *minuta* p. 237 pl. xix fig. 4, *pedicellaris* p. 236 pl. xix fig. 3, *stolidota* p. 239 pl. xix fig. 6, *studeri* p. 234 pl. xix fig. 2, FISHER **35**.

Anseropoda antarctica **sp. n.** Antarctic Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 149–150 fig. E 1–1c, pl. x fig. 3, pl. xii fig. 1.

Anteliaster australis **sp. n.** Southern Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 215–217 fig. I 1–1d, pl. ix figs. 2–3; *scaber*, ID. p. 217 fig. F 4.

Apterodon **subgen. n.** see *Pteraster*.

Asterodon singularis, FISHER **35** p. 116.

Bathybiaster loripes p. 89 with var. *obesus* p. 90, FISHER **35**.

Brisingella pusilla, FISHER **35** p. 206 fig. H 2, 7–8.

†*Calliderma smithiae* transitional to *Chomataster praecursor*, WRIGHT & WRIGHT **117** p. 243 pl. xv fig. 3, pl. xvi fig. 5.

†*Calliderma* (*Mastaster*) *villersensis*, WRIGHT & WRIGHT **117** p. 241 figs. 11–12, pl. xiv figs. 14–15, pl. xv figs. 1–2, 4, 7.

Ceramaster patagonicus, FISHER **35** p. 118.

†*Chomataster praecursor* transitional to *C. acules*, WRIGHT & WRIGHT **117** p. 244 fig. 10, pl. xiv fig. 9, pl. xv figs. 8–11, pl. xvi figs. 3–4.

Cladaster analogus **sp. n.** Southern Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 123–125 fig. D 2, pl. iv figs. 1–3.

Coscinasterias calamaria, FISHER **35** p. 273 fig. L 5.

Cosmasterias lurida, FISHER **35** p. 263.

†*Crateraster quinqueloba* p. 239 pl. xiii fig. 10, pl. xvi figs. 1–2 with var. *depressus* p. 240 pl. xiii fig. 14, WRIGHT & WRIGHT **117**.

Crossaster penicillatus, FISHER **35** p. 180.

Cryptasterias turqueti, FISHER **35** p. 257.

Ctenodiscus australis, FISHER **35** p. 76.

Cuenotaster involutus, FISHER **35** p. 184.

Cycethra verrucosa, FISHER **35** p. 129 fig. C 4.

Diplasterias brandti p. 249, *brucei* p. 253, *meridionalis* p. 251 fig. M 2, pl. xxi fig. 4, pl. xxii fig. 1, *octoradiata* p. 254 fig. M 1, pl. xxi figs. 1–3, pl. xxii fig. 2, *radiata* p. 257 fig. M 3, FISHER **35**.

Diplopteraster clarki **sp. n.** Argentine, BERNASCONI An. Mus. nac. B. Aires **39** 1937 pp. 177–183 figs. 4–5, pls. iii–vi; *nordenskjöldi* p. 184 pl. vii fig. 1, pl. viii fig. 1, *verrucosus* p. 183 pl. vii fig. 2, pl. viii fig. 2, ID.—*D. semireticulatus* p. 203, *verrucosus* p. 201, FISHER **35**.

Ganeria falklandica, FISHER **35** p. 127.

Henricia diffidens p. 169, *obesa* p. 164 pl. xi fig. 2, *ornata* p. 272, *pagenstecheri* p. 166 pl. xi fig. 4 with race *parva* p. 168, *H. simplex* p. 168 pl. xi fig. 3, *studeri* p. 163 pl. xi fig. 1, FISHER **35**.

Hippasteria falklandica **sp. n.** Southern Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 125–127 pl. iii fig. 2, pl. iv fig. 4.

Kampylaster incurvatus, FISHER **35** p. 150 fig. D 3.

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Leptychaster discussion p. 79 with *accrescens* p. 85, *flexuosus* p. 84, *kerguelenensis* p. 83 with race *mendosus* p. 84, *K. magnificus* p. 87, FISHER **35**.

Lethasterias australis **sp. n.** Southern Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 223–224 fig. L 1–1g, 2, pl. xvii fig. 5.

Lophaster densus **sp. n.** Antarctic pp. 173–175 fig. E 4–4c, pl. xiii figs. 2–3, *marionis* **sp. n.** Southern Ocean pp. 171–173 fig. F 1–1d, pl. xiii fig. 1, FISHER Discovery Rpts. Cambridge **20**; *gaini* p. 173, *stellans* p. 170 fig. E 3, ID.

†*Lophidiaster ornatus*, WRIGHT & WRIGHT **117** p. 245.

Luidia heterozona **sp. n.** Tropical Atlantic, FISHER Discovery Rpts. Cambridge **20** pp. 265–268 fig. M 4–4c, pl. xxiii; *aciculata*, ID. p. 268 fig. M 5.

Luidiaster gerlachei, FISHER **35** p. 96.

Lysasterias hemiora **sp. n.** Antarctic pp. 245–246 fig. L 3, pl. xx fig. 2; *heteractis* **sp. n.** Antarctic pp. 247–248 fig. L 4–4b, pl. xx fig. 1, FISHER Discovery Rpts. Cambridge **20**; *adeliae* p. 244, *joffrei* p. 245, *perrieri* p. 241, ID.

Marthasterias glacialis forma *rarispina*, FISHER **35** p. 273.

†*Metopaster icenicus* p. 233 fig. 8, pl. xiii figs. 5–9, *stainforthi* pp. 231–233 fig. 7, pl. xiii figs. 1–4, 11, 12, pl. xvii figs. 1–2, **spp. n.** Cretaceous England, WRIGHT & WRIGHT Quart. J. Geol. Soc. London **96**; *M. undulatus* var. *triminghamensis* **var. n.** Cretaceous England, ID. p. 238 pl. xiv fig. 11; *M. quadratus* p. 237 figs. 2–3, pl. xiv figs. 1–2, *tumidus* p. 233 pl. xiii fig. 13, pl. xvi fig. 6, *tumidus* ? var. *radiatus* p. 233 fig. 6, *M. uncatus* p. 236 figs. 1, 4–5, pl. xiv figs. 3–4, *undulatus* p. 238 pl. xiv figs. 5–6, *M.* sp. p. 238 fig. 9, ID.

Mirastrella **gen. n.** p. 152 for type *M. biradialis* **sp. n.** Antarctic, FISHER Discovery Rpts. Cambridge **20** pp. 153–154 fig. D 4, pl. ix fig. 1.

†*Mitraster compactus*, WRIGHT & WRIGHT **117** p. 239 pl. xiv fig. 10.

Myoraster **gen. n.** for type *Lophaster antarcticus* Koehler 1912, FISHER Discovery Rpts. Cambridge **20** p. 181.

Neosmilaster georgianus p. 258, *steineri* p. 259, FISHER **35**.

Notasterias stolophora **sp. n.** Antarctic, FISHER Discovery Rpts. Cambridge **20** pp. 226–227 fig. J 1–1e, 2b, pl. xvii fig. 4; *N. armata* p. 225 fig. J 2a, 4, K 1, *bongraini* p. 227 fig. J 2c–e, 3, ID.

Notioceramus **gen. n.** for type *N. anomalus* **sp. n.** Antarctic, FISHER Discovery Rpts. Cambridge **20** pp. 119–120 fig. D 1–1e, pl. ii fig. 4, pl. iv fig. 5.

Odinella **gen. n.** p. 204 for type *O. nutrix* **sp. n.** Southern Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 207–214 figs. G 1–6, H 1, 3–6, 9, pls. xiv, xv, xvi figs. 1–11, pl. xvii figs. 1–3.

Odontaster meridionalis p. 99, *penicillatus* with forma *grayi* p. 105, *O. validus* with forma *tenuis* p. 101, FISHER **35**.

Odontasteridae, key to genera, FISHER **35** p. 97.

Othilia aculeata, CLARK **25** p. 334 pl. i figs. 1–2.

Paralophaster **gen. n.** for type *Solaster godefroyi* Koehler 1912, FISHER Discovery Rpts. Cambridge **20** p. 175; *P. godefroyi* subsp. *meseres* **subsp. n.** Ross Sea, ID. pp. 176–177 fig. F 2–2b, pl. xii figs. 2–3.

Parasterina crassa, FISHER **35** p. 270.

Patiria bellula p. 269, *granifera* p. 271, FISHER **35**.

Patiriella fimbriata, FISHER **35** p. 148.

Pedicellaster hypernotius, FISHER **35** p. 214 fig. F 3.

Pergamaster synaptorus **sp. n.** Antarctic, FISHER Discovery Rpts. Cambridge **20** pp. 122–123 pl. ii fig. 3, pl. iii fig. 1; *incertus*, ID. p. 121 pl. ii figs. 1–2.

Peribolaster folliculatus p. 188 fig. C 5, *macleani* p. 191, FISHER **35**.

Perknaster sladeni subsp. *georgianus* **subsp. n.** Southern Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 143–144 fig. B 2, pl. v fig. 2, pl. vi fig. 3; *P. aurorae* p. 146 fig. C 1–3, pl. vii fig. 2; *charcoti* p. 144 fig. B 5, pl. vii fig. 3; *densus* p. 138 fig. A 3, pl. viii figs. 1–2; *fuscus* p. 136 fig. A 1, 2, 4, pl. v fig. 1, pl. vi fig. 1 with var. *antarcticus* p. 137 fig. B 1, pl. vi fig. 2; *P. sladeni* p. 140 fig. B 3–4, pl. vii fig. 1, ID.

†*Phocidaster grandis*, WRIGHT & WRIGHT **117** p. 241 pl. xiv figs. 7–8, pl. xv figs. 5–6, 12.

Pontaster planeta, FISHER **35** p. 94.

Porania antarctica p. 154 with forma *glabra* p. 155, FISHER **35**.

Poraniopsis echinaster, FISHER **35** p. 158.

Psalidaster **gen. n.** for type *P. mordax* **sp. n.** Southern Ocean, FISHER Discovery Rpts. Cambridge **20** pp. 229–231 fig. K 2–3, pl. xviii figs. 1–2.

Pseudarchaster discus, FISHER **35** p. 117.

Psilaster charcoti, FISHER **35** p. 93.

Pteraster argentinus p. 173 fig. 3, pl. ii figs. 1–2, *marplatensis* p. 169 figs. 1–2, pl. i figs. 1–4, pl. ii figs. 3–4, BERNASCONI **10**.

Pteraster with *Apterodon* **subgen. n.** Fisher Discovery Rpts. Cambridge **20** p. 193; *P.* (*A.*) *stellifer*, Id. p. 199.

Pteraster (*Pteraster*) *lebruni* p. 194 with race *brachiatus* p. 196, Fisher **35**.

Pteraster (*Retaster*) *gibber*, Fisher **35** p. 197.

Remaster gourdoni, Fisher **35** p. 186.

Rhopiella **gen. n.** for type *R. koehleri* **sp. n.** Southern Ocean, Fisher Discovery Rpts. Cambridge **20** pp. 160–162 fig. E 2–2d, pl. x figs. 1–2.

Sclerasterias alexandri var. *crassa* **var. n.** Eastern Pacific, Clark Zoologica New York **25** pp. 335–336.

Smilasterias scalprifera p. 261, *triremis* p. 262, Fisher **35**.

Solaster regularis p. 178 with subsp. *subarcuatus* p. 179, Fisher **35**.

Spoladaster **gen. n.** for type *Cryaster brachyactis* H. L. Clark 1923, Fisher Discovery Rpts. Cambridge **20** p. 135.

†*Teichaster favosus*, Wright & Wright **117** p. 240 pl. xiv figs. 12–13.

Ophiuroidea.

Amphichondrius laevis **sp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 22–24 pl. iv figs. 7–9.

Amphicontus **gen. n.** for type *A. minutus* **sp. n.** Eastern Pacific, Hill Reps. Allan Hancock Pacific Exped. **8** pp. 1–4 pl. i figs. 1–3.

Amphiodia vicina **sp. n.** Costa Rica, Clark Zoologica New York **25** pp. 338–339 figs. 1–2.—*A. sculptilis* **sp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 24–25 pl. v figs. 1–3.

Amphiophiura irregularis pp. 36–39 pl. vii figs. 4–6, *paucisquama* pp. 39–40 pl. viii figs. 1–3 **spp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8**.

Amphioplus philohelminthius **sp. n.** Peru, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 27–28 pl. v figs. 7–9.

Astroconus pulcher **sp. n.** S. Australia, Clark Rec. S. Aust. Mus. Adelaide **6** 1939 pp. 207–208 pl. xviii.

Ophiacantha phragma **sp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 11–13 pl. ii figs. 4–6.

Ophiocirce mabahithae **sp. n.** Red Sea, Mortensen Pub. Mar. Biol. Stat. Ghardaqa (Red Sea) Cairo **1** 1939 pp. 42–45 figs. 3–4, pl. iii figs. 7–8; *O. inutilis*, Id. p. 43 fig. 5.

Ophiocnida californica **sp. n.** California, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 25–27 pl. v figs. 4–6.

Ophioderma teres var. *unicolor* **var. n.** Eastern Pacific, Clark Zoologica New York **25** p. 342.

†Ophiodermatidae ?, gen. et sp. indet., Hayasaka **40** p. 11 fig. 1.

Ophiodesmus **gen. n.** for type *O. amphilogus* **sp. n.** Mexico, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 33–35 pl. ix figs. 4–6.

Ophiolepis fulva pp. 345–346 fig. 3, *grisea* pp. 346–347 fig. 4, **spp. n.** Eastern Pacific, Clark Zoologica New York **25**; *variegata*, Id. p. 344.—*O. plateia* **sp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 41–42 pl. viii figs. 4–6.

Ophiomisidium leurum **sp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 35–36 pl. vii figs. 1–3.

†*Ophiomusium calathospongum* **sp. n.** Carboniferous U.S.A., Berry Notul. Nat. Philad. **1939** 24 pp. 2–4 figs. 1–1a.

Ophiomyces multispinus **sp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 13–15 pl. iii figs. 1–4.

Ophionereis dictyota pp. 29–30 pl. vi figs. 1–5, *perplexa* pp. 30–33 pl. vii figs. 7–9, **spp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8**.

Ophiophragmus disacanthus pp. 15–16 pl. ix figs. 1–3, *lonchophorus* pp. 16–18 pl. iv figs. 4–6, *ophiactoides* pp. 18–19 pl. iii figs. 5–7, *papillatus* pp. 19–20 pl. iv figs. 1–3, *stellatus* pp. 21–22 pl. vi figs. 6–9, **spp. n.** Eastern Pacific, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8**.

Ophiothrix fragilis, Smith **98** p. 267 figs. 1–15.

Sigsbeia laevis **sp. n.** Panama, Ziesenhenne Reps. Allan Hancock Pacific Exped. **8** pp. 9–11 pl. ii figs. 1–3.

CRINOIDEA.

†*Acariaiocrinus angulosus*, OYENS **87** p. 326 pl. iii fig. 11.

†*Actinocrinus boonensis* **sp. n.** Carboniferous U.S.A., PECK & KEYTE Univ. Missouri Studies **13** 4 1938 p. 89 pl. xxviii figs. 21–22; *milleri* **nom. n.** pro *Melocrinus sampsoni* Miller & Gurley 1895, ID. p. 83 pl. xxvii figs. 14–15; *arrosus* p. 79 pl. xxviii figs. 9–10, 17, *chouteauensis* p. 81 pl. xxvii figs. 16–17, *jessieae* p. 82 pl. xxvii fig. 5, pl. xxviii figs. 4–5, *sedaliensis* p. 84 pl. xxviii figs. 6–8, *senectus* p. 85 pl. xxvii figs. 12–13, *spinulosus* p. 88 pl. xxviii figs. 23–25, *trijugis* p. 86 pl. xxviii figs. 1–3, 15–16, 18–20, ID.—*A. carinatus*, OYENS **87** p. 298 fig. 2, pl. i fig. 3.

†*Agaricocrinus montgomeryensis* **sp. n.** Carboniferous U.S.A., PECK & KEYTE Univ. Missouri Stud. **13** 4 1938 pp. 78–79 pl. xxix figs. 5–6, 14; *blairi* p. 78 pl. xxix figs. 1–2, *sampsoni* p. 76 pl. xxix figs. 3–4, 7–9, ID.

†*Agassizocrinus dactyliformis, gibbosus, laevis, ovalis*, description of arm structure, KIRK **56** pp. 52–55.

†*Allagecrinus pecki*, MOORE **75** p. 573 fig. 1.

†*Allocatillocrinus rotundus*, MOORE **75** p. 576 fig. 2.

†*Amphicrinus divergens* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** pp. 91–92 pl. viii figs. 11–12.—*A. simplex* **sp. n.** Carboniferous U.S.A., STRIMPLE ID. p. 103 pl. ix fig. 1.

†*Anartiocrinus* **gen. n.** for type *A. lyoni* **sp. n.** Carboniferous U.S.A., KIRK Amer. J. Sci. New Haven **238** pp. 47–50 pl. i figs. 1–5, 9; *A. maxvillensis*, ID. p. 50 pl. i figs. 6–8.

Anisometra **gen. n.** for type *A. frigida* **sp. n.** Antarctic Ocean, JOHN Repts. B.A.N.Z. Antarctic Res. Exped. 1929–31 **4** B pp. 204–205 fig. 4.

†*Arthracantha carpenteri*, STEWART **99** p. 55 fig. 1, pl. i fig. 5.

†*Ascetocrinus* **gen. n.** for type *Scaphiocrinus rusticellus* White 1863, KIRK J. Wash. Acad. Sci. **30** p. 324.

†*Basleocrinus conicus* p. 337 pl. iv fig. 5, *striategranulatus* p. 339 pl. iv fig. 6, OYENS **87**.

†*Blothrocrinus* **gen. n.** for type *Poteriocrinus jesupi* Whitfield 1881, KIRK J. Wash. Acad. Sci. **30** p. 321.

†*Bolbocrinus curvatus* **sp. n.** Permian Timor, OYENS Geol. Exped. Univ. Amsterdam Lesser Sunda Islands **1** pp. 319–320 pl. iii fig. 8.

†*Bourgueticrinus granulosus*, Basse in BASSE & SÉNESSE **6** p. 27 pl. ii fig. 5.

†*Callimorphocrinus jakovlevi* p. 344, *quinquebrachiatus* p. 344 pl. iv fig. 10, OYENS **87**.

†*Calycocrinus labiatus* **sp. n.** pp. 312–314 pl. iii fig. 3, *venemai* var. *plana* **var. n.** p. 314 pl. iii fig. 4, Permian Timor, OYENS Geol. Exped. Univ. Amsterdam Lesser Sunda Islands **1**; *curvatus coronatus* p. 310 pl. ii fig. 9, *curvatus labrosus* p. 311 pl. iii fig. 2, *curvatus subcoronatus* p. 310 pl. iii fig. 1, *curvatus typus* p. 309 pl. ii fig. 8, ID.

†*Catillocrinus morrowensis* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** pp. 92–93 pl. viii figs. 7–10.

†*Cestocrinus* **gen. n.** for type *C. striatus* **sp. n.** Carboniferous U.S.A., KIRK Proc. U.S. Nat. Mus. **88** pp. 221–224 pl. xxxi.

†*Corocrinus sampsoni*, PECK & KEYTE **93** p. 75 pl. xxix figs. 10–13.

†?Crinoidea, plates and columnars, LOCHMAN **68** p. 14 pl. ii figs. 13–14.

†*Cyathocrinus chouteauensis*, PECK & KEYTE **93** p. 103 pl. xxxi figs. 12–13.

†*Cydrocrinus* **gen. n.** for type *Poteriocrinus coxanus* Worthen 1882, KIRK J. Wash. Acad. Sci. **30** p. 323.

†*Decadocrinus* sp. undet., PECK & KEYTE **93** p. 108 pl. xxxi fig. 5.

†*Delocrinus convexus* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** p. 95 pl. viii figs. 13–14.—*D. parinodosarius* pp. 104–105 pl. ix figs. 3, 5, 8, *wewokaënsis* pp. 105–106 pl. ix figs. 2, 4, 6, **spp. n.** Carboniferous U.S.A., STRIMPLE ID.

†*Dichostreblocrinus timorensis* **sp. n.** Permian Timor, OYENS Geol. Exped. Univ. Amsterdam Lesser Sunda Islands **1** pp. 327–329 fig. 9, pl. iii fig. 13.

†*Dinocrinus elegans* **sp. n.** Permian Timor, OYENS Geol. Exped. Univ. Amsterdam Lesser Sunda Islands **1** pp. 335–337 pl. iv fig. 4.—*D.*? *bicornutus* p. 241 pl. xviii figs. 50–53, *D.*? *horridus* pp. 239–241 fig. 23, pl. xviii figs. 42–49, **spp. n.** Permian Timor, WANNER Palaeontographica Stuttgart Supplement **4.**

†*Elibatocrinus* **gen. n.** p. 35 for type *E. leptocalyx* **sp. n.** Carboniferous U.S.A., MOORE J. sci. Labs. Denison Univ. **35** pp. 36–41 figs. 1–3, pl. i figs. 2–6; *catactus* pp. 43–45 pl. i fig. 1, *concinnulus* pp. 42–43 pl. i fig. 8, *notabilis* pp. 41–42 fig. 4, pl. i fig. 7, **spp. n.** Carboniferous U.S.A., ID.

†*Ethelocrinus oklahomensis* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** pp. 94–95 pl. viii figs. 1–3.

Eumorphometra aurora, JOHN **51** p. 202 fig. 3.

†*Euonychocrinus* **gen. n.** for type *E. dubius* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** pp. 101–103 pl. ix figs. 11–13.

†*Eupachycrinus irregularis* **sp. n.** Carboniferous U.S.A., SUTTON & WINKLER, J. Paleont. Menasha, Wis. **14** p. 551 pl. lxvi figs. 8–10; *durabilis* p. 549 pl. lxvi figs. 18–21, *germanus* p. 551 pl. lxvi figs. 16–17, *quatuordecembrachialis* p. 549, *E.*? *boydii* p. 550 pl. lxvii figs. 16–17, ID.

†*Euryocrinus* ? *laddii* **sp. n.** Devonian U.S.A., STEWART Ohio J. Sci. **40** pp. 57–59 fig. 2, pl. i fig. 6.

†*Eutelecrinus fritillus* p. 299 pl. ii fig. 4, *piriformis* p. 299 pl. ii fig. 3, WANNER **87.**

Florometra spinulifera **sp. n.** Antarctic Ocean, JOHN Repts. B.A.N.Z. Antarctic Res. Exped. 1929–31 **4** B pp. 199–201 fig. 2; *mawsoni*, ID. p. 198.

†*Galateacrinus* **gen. n.** p. 45 for type *G. stevensi* **sp. n.** Carboniferous U.S.A., MOORE J. sci. Labs. Denison Univ. **35** pp. 46–48 figs. 6–8, pl. i figs. 9–10; *allisoni* pp. 49–51 fig. 5, pl. i fig. 11, *ewersi* pp. 48–49 pl. i fig. 12, *ornatus* pp. 51–52 fig. 9, pl. i fig. 13, **spp. n.** Carboniferous U.S.A., ID.

†*Gilbertsocrinus ohioensis* **sp. n.** Devonian U.S.A., STEWART Ohio J. Sci. **40** pp. 54–55 pl. i figs. 1–4.

†*Hemistreptacron carinatum* var. *ornata*, OYENS **87** p. 327 fig. 8, pl. iii fig. 12.

†*Hexacrinus gibbosus* **sp. n.** Devonian France, BERGOUNIOUX Bull. Soc. géol. Fr. (5) **9** 1939 pp. 82–84 figs. 1–2, pl. vi figs. 1–2.

†*Histocrinus* **gen. n.** for type *Poteriocrinus* (*Scytalocrinus*) *grandis* Wachsmuth & Springer 1880, KIRK J. Wash. Acad. Sci. **30** p. 327.

†*Hydreionocrinus daileyi* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** pp. 93–94 pl. viii figs. 4–6.

†*Hypselocrinus* **gen. n.** for type *Poteriocrinus hoveyi* Worthen 1875, KIRK J. Wash. Acad. Sci. **30** p. 325.

†*Intermediacrinus* **gen. n.** p. 559 for type *Eupachycrinus asperatus* Worthen 1882 Carboniferous U.S.A., SUTTON & WINKLER J. Paleont. Menasha, Wis. **14** p. 561 pl. lxvii figs. 1–2; *pentalobus* p. 562 pl. lxviii figs. 11–12, *tumidus* pp. 561–562 pl. lxviii figs. 15–16, *variabilis* p. 562 pl. lxvii fig. 11, **spp. n.** Carboniferous U.S.A., ID.; *spartarius*, ID. p. 561 pl. lxvi figs. 3–5.

†*Isocatillocrinus indicus*, OYENS **87** p. 316 pl. iii fig. 6.

†*Isocrinus* cf. *bavaricus* p. 327 pl. xvii fig. 4, *I. dubius* p. 325 pl. xvii figs. 1, 5, cf. *dubius* p. 326 pl. xvii fig. 3, *I. propinquus* p. 326 pl. xvii fig. 2, BONI **15.**

Isometra graminea, JOHN **51** p. 206.

†? *Jonkerocrinus conicus* **sp. n.** Permian Timor, OYENS Geol. Exped. Univ. Amsterdam Lesser Sunda Islands **1** pp. 341–342 pl. iv fig. 7.

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†*Pentaramicrinus* **gen. n.** for type *Cromyocrinus gracilis* Wetherby 1880 Carboniferous U.S.A., Sutton & Winkler J. Paleont. Menasha Wis. **14** p. 558 pl. lxvi figs. 14–15; *P. magnaradianalis* **sp. n.** Carboniferous U.S.A., Id. p. 559 pl. lxviii figs. 24–25; *pulaskiensis,* Id. p. 559 pl. lxvi figs. 1–2.

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†*Scytalocrinus pentacolumnus* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** p. 104 pl. ix figs. 14–15.

†*Stellarocrinus* **nom. n.** for *Whiteocrinus* Strimple 1939 non Jaekel 1918; *S. distinctus* **sp. n.** Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **25** pp. 111–112 pl. x fig. 5; *S. stillivatus*, ID. p. 109 pl. x figs. 1–4.

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†Group *Ageneracrinus* **group nov.** for section *Zeacrinus subtumidus* Worthen 1873 Carboniferous U.S.A., SUTTON & WINKLER J. Paleont. Menasha Wis. **14** p. 563 pl. lxvii figs. 20–21; *altacalyx* p. 565 pl. lxviii figs. 7–8, *basalis* p. 564 pl. lxviii figs. 1–2, *basalotumidus* p. 565 pl. lxviii figs. 22–23, *parvabasalis* p. 565 pl. lxviii figs. 3–4, *parvaradianalis* p. 565 pl. lxvi fig. 13, *platycalyx* p. 564 pl. lxviii figs. 13–14, *tumidorugosus* p. 566 pl. lxviii figs. 20–21 **section. n.** Carboniferous U.S.A., ID.; *tumulosus*, ID. p. 563 pl. lxvii figs. 18–19.

MACHAERIDIA.

[Vacant.]

†CYSTIDEA & EDRIOASTEROIDEA.

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Corylocrinus europaeus, DREYFUSS **32** p. 124 fig. 2 D, pl. xi figs. 1–2.

Cyclocystoides, see under Incertae Sedis.

Eumorphocystis **gen. n.** for type *E. multiporata* **sp. n.** Ordovician U.S.A., BRANSON & PECK J. Paleont. Menasha, Wis. **14** pp. 89–92 pl. xiii figs. 1–7.

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Juglandocrinus crassus, DREYFUSS **32** p. 123 fig. 2C, pl. xi fig. 7.

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Cryptoblastus bellatulus **n. sp.** Carboniferous U.S.A., Peck Univ. Missouri Stud. **13** 1938 pp. 68–69 pl. xxvi figs. 1–3; *conoideus* p. 63 pl. xxvi figs. 6–8, *missouriensis* p. 65 pl. xxvi figs. 9–15, 39, *roemeri* p. 60 pl. xxvi figs. 19–21, 23–24, *tenuis* p. 62 pl. xxvi figs. 16–17, 22, *C.* ? *pentagonus* p. 67 pl. xxvi figs. 4–5, Id.

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Indoblastus nuciformis **sp. n.** Permian Timor, Wanner Geol. Exped. Univ. Amsterdam Lesser Sunda Islands **1** pp. 261–264 pl. i fig. 14, pl. ii figs. 1–2; *I.* diagnosis p. 238, *I. granulatus* p. 260 figs. 6–7, Id.

Mesoblastus glaber, Croneis & Geis **28** p. 346 figs. 1–2.

Nannoblastus diagnosis, Wanner **112** p. 236.

Neoschisma timorense **sp. n.** Permian Timor, Wanner Geol. Exped. Univ. Amsterdam Lesser Sunda Islands **1** pp. 264–267 pl. ii figs. 8–10; *N.* diagnosis p. 238, Id.

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†*Cyclocystoides wrighti* **sp. n.** Ordovician Scotland, Begg Trans. Geol. Soc. Glasgow **20** pp. 23–27 pl. i figs. 1–2, 5; *decussatum*, Id. p. 24 pl. i fig. 3.

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ARRANGED BY

WILLIAM NICOLL, D.Sc.

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†*Acodina concava, covina, curvata spidata delata, lanceolata, lirata, ursa, velva* **spp. n.** Devonian clays, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 418 figs.

†*Angulodus elongatus* **sp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 419 fig.

†*Belodus devonicus, triangularis* **spp. n.** Devonian clays, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 420 figs.

†*Bryantodus abbreviatus* **sp. n.** Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938 p. 140 fig. 21.—†*B. brickeri, hickoki, hormeli, versus* **spp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 420 figs.

†*Cervicornoides minnesotensis* **sp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 421 fig.

†*Dichognathus protexus* **sp. n.** Devonian clays, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 422 fig.

†*Gnathodus delicatus, perplexus* **spp. n.** Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938 p. 145 figs. 24–27.

†*Hindeodella* sp., Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938 p. 141 pl. xxxiv.—†*H. austineusis, moweri* **spp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 424 figs.

†*Icriodus brevis* **sp. n.** Devonian, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 424 fig.

†*Ligonodina angulata* **sp. n.** Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938 p. 142 fig. 43.—†*L. atana* **sp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 425 fig.

†*Ozarkoidina congesta* **sp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 427 fig.

†*Paltodus belatus, panderi, subquadratus* **spp. n.** Devonian clays, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 pp. 427–428 figs.

†*Pandorina* **gen. n.** *brambona, gratiosa, insita* **spp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 428 figs.

†*Plectodina tilbara* **sp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 429 fig.

†*Polygnathus lobata* p. 146, *flabella, obtecta* p. 147 pl. xxxiv **spp. n.** Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938.—†*P. angulosus, hulkus, juvensis, porcillus, varcus, xylus,* **spp. n.**, Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 pp. 429–430 figs.

†*Prioniodella mulata* **sp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 431 fig.

†*Prioniodina tortus* **sp. n.** Devonian clay, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 431 fig.

†*Prioniodus nothus* **sp. n.** p. 142, spp. p. 143 pl. xxxiv, Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938.—†*P. remus, taritus* **spp. n.** Devonian clays, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 431 figs.

†*Siphonognathus duplicata* Br. & Mehl, Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938 p. 148 figs. 34, 35.

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†*Synprioniodina forsenta, tropa* **spp. n.** Devonian clays, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 432 figs.

†*Trichognathus* sp., Lower Mississippian, Missouri, BRANSON & MEHL Univ. Mo. Stud. **13** 1938 p. 142 fig. 38.—†*T. blanda* **sp. n.** Devonian clays, Minnesota, STAUFFER J. Paleont. Sharon **14** 1940 p. 434 fig.

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†*Lumbriconereites hibbardi* **sp. n.** Silurian, Albion beds, New York, ELLER Ann. Carnegie Mus. Pittsburgh **28** 1940 p. 10 figs.

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Corrigenda.

Vol. LXX 1933 p. 113 col. 2 for 1922 read 1933.

Vol. LXXVI 1939 p. 78 col. 2 for *Phanenopsolus* read *Phaneropsolus.*

Vol. LXXVI 1939 p. 80 col. 2 for *Metratrema* **gen. n.** read *Mehratrema* **gen. n.**

VII. BRACHIOPODA

BY

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Full references are given only in the case of new genera or species. In other cases the numeral in "Large bold Clarendon" refers to the list of titles where the full reference will be found. In the case where a reference is given in the Systematic Part, the volume number is printed in "Small bold Clarendon."

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†*Paterina modesta* **sp. n.** Cambrian U.S.A. (Missouri), Lochman J. Paleont. Menasha, Wis. **14** 1940 p. 14 pl. i figs. 20–21.

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†*Mickwitzia* p. 104, *monilifera* p. 105 pl. xxxiii figs. 1a–e, Lermontova **34**.

†*Micromitra paucicostellae* **sp. n.** Cambrian U.S.A. (Missouri), Lochman J. Paleont. Menasha, Wis. **14** 1940 pp. 14–15 pl. i figs. 23–24.—*M.*, Lermontova **34** p. 105.

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†*Dicellomus fiestus* p. 19 pl. i figs. 1–2, *walcotti* p. 20 pl. i figs. 18–19 **spp. n.** Cambrian U.S.A. (Missouri), *appalachia* p. 18 pl. i figs. 9–12, *politus* p. 19 pl. i fig. 8, Lochman J. Paleont. Menasha, Wis. **14** 1940.

†*Lingulella modesta* **sp. n.** pp. 16–18 pl. i fig. 22 Cambrian U.S.A. (Missouri), *perattenuata* p. 18 pl. i fig. 27, Lochman J. Paleont. Menasha, Wis. **14** 1940.—*L.* p. 106, *jakutensis* p. 106 pl. xxxiii figs. 7a–c, Lermontova **34**.

†*Obolus maesche* **sp. n.** pp. 15–16 pl. i fig. 28 Cambrian U.S.A. (Missouri), *matinalis* p. 16 pl. i fig. 25, Lochman J. Paleont. Menasha, Wis. **14** 1940.—*O.*, Lermontova **34** p. 105.

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†*Discina nitida*, Gorsky & Timofeeva **18** p. 41.

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†*Ancistrocrania skeatsi* **nom. n.** for *Crania quadrangularis* Tate 1893 (non *C. quadrangularis* Lundgren 1885) Tertiary Australia, Allan Rec. Canterbury (N.Z.) Mus. **4** 1940 pp. 277–279 pl. xxxv fig. 1.

†*Crania* ? sp., Toulmin **73** p. 228 pl. xxviii figs. 1–3.

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†*Cliftonia grayae*, ARBER **3** fig. 3d.

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†*Leptaena* sp., MERRIAM **48** pl. vi fig. 11.

†*Leptostrophia canace*, ARBER **3** fig. 1d.

†*Meekella striatocostata*, RENZ **62** p. 137 pl. ii fig. 2.

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†*Schuchertellopsis* **gen. n.** pp. 3, 5–6, for type *S. durbutensis* **sp. n.** pp. 6–8 figs. 1–6 Devonian Belgium, MAILLIEUX Bull. Mus. Hist. nat. Belg. **15** 53 1939.

†*Sowerbyella sericea*, ARBER **3** fig. 3b.

†*Strophcodonta iddingsi* **sp. n.** Devonian U.S.A. (Nevada), MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940 p. 79 pl. vi fig. 6.—*S.* p. 164, *demissa* fig. 1c, ARBER **3**.

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†*Marginifera intermedia helica* var. *shaksgamensis* **var. n.** pp. 171–172 pl. v figs. 5a–c Permian Karakorum, *himalayensis* p. 169 pl. v figs. 6, 7a–d, *juresanensis* p. 166 pl. v figs. 2a–c, *schellwieni* p. 168 pl. v. figs. 4a–c, *sintanensis* p. 167 pl. v figs. 1a–b, *spinosocostata* p. 170, cf. *involuta* p. 170 pl. v figs. 3a–b, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940.

†*Productus coraella* **sp. n.** [nom. nud.] Carboniferous Russia (Komi), PONOMAREV Trans. centr. geol. prosp. Inst. U.S.S.R. **125** 1939 pp. 31, 37, 62.—*P. neoplicatilis* **nom. nov.** for *P. plicatiliformis* Fredericks non Demanet Carboniferous Russia, STEPANOV C.R. Acad. Sci. Moscou N.S. **25** 1939 p. 758.—*P.* p. 50, sp. p. 58, GORSKY & TIMOFEEVA **18**.—*P. gratiosus* p. 148, *inflatus* p. 146 pl. iv figs. 1a–c, *intermedius* var. *minor* p. 146 pl. ii figs. 10a–b, *moelleri* p. 148 pl. iii fig. 1 with var. *latus* p. 149 pl. iii fig. 2, *pseudomedusa* p. 150 pl. iii figs. 3a–c, *semireticulatus* p. 144, *uralicus* p. 145, sp. a. p. 152 pl. iii figs. 4a–b, sp. p. 153, RENZ **62**.

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†*Productus* (*Linoproductus*) *keideli* **sp. n.** pp. 154–155 pl. iii figs. 10a–c Permian Karakorum, *cancriniformis* Tschern. p. 158, *cancriniformis* De Terra p. 158, *cora* p. 151 and var. *waagenianus* p. 151, *kayseri* p. 156, *koninckkianus* p. 153 pl. iii figs. 12a–d, *simensis* p. 155 pl. iii figs. 11a–c, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940.—*P.* (*L.*) sp. 2 sp. nov., GORSKY & TIMOFEEVA **18** p. 57 pl. ii fig. 15, pl. iii figs. 1–5.

†*Productus* (*Productus*) aff. *redesdalensis*, GORSKY & TIMOFEEVA **18** p. 56 pl. ii fig. 12.

†*Productus* (*Pustula*) *fredericksianus* p. 51 pl. ii figs. 1–2, cf. *pilosus* p. 51, cf. *subpustulosus* p. 51 pl. ii fig. 5, sp. p. 52, GORSKY & TIMOFEEVA **18**.

†*Productus* (*Striatifera*) *mytiloides*, RENZ **62** p. 164.

†*Productus* (*Waagenoconcha*) *abichi* p. 161 pl. iv fig. 6 and mut. *cambodgiensis* p. 162 pl. iv figs 7a–c, RENZ **62**.

ORDER TELOTREMATA.

Spiriferoidea **suborder n.** including superfamilies Rhynchonellacea, Atrypacea, Spiriferacea and Rostrospiracea, ALLAN Rec. Canterbury (N.Z.) Mus. **4** 1940 p. 269.

RHYNCHONELLACEA.

CAMAROTOECHIIDAE.

†*Hypothyridina cuboides* var. *latecoctata* **var. n.** [nom. nud.] Devonian Russia, KIRICHENKO Trans. centr. geol. prosp. Inst. U.S.S.R. **122** 1940 p. 23 footnote 1.—*H. emmonsi* pl. ix figs. 18–19, *magister* pl. ix figs. 13–14, sp. a pl. ix figs. 15–17, MERRIAM **48**.

†*Leiorhynchus walcotti* **sp. n.** Devonian U.S.A. (Nevada), MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940 p. 82 pl. ix figs. 4–8.

†*Pugnax elegans* var. p. 178 pl. v figs. 14a–c, cf. *elegans* p. 179 pl. v fig. 13, cf. *swallowiana* p. 180 pl. v figs. 15a–c, RENZ **62**.

†*Terebratuloidea* sp. aff. *triplicata*, RENZ **62** p. 181.

†*Uncinulus* (*Uncinunellina*) *timorensis* p. 176 pl. v figs. 12a–d, cf. *timorensis* p. 177, RENZ **62**.

RHYNCHONELLIDAE.

†*Burmirhynchia guttula*, RENZ **63** p. 255 pl. xv figs. 5a–c.

†*Hemithyris psittacea woodwardi*, HAYASAKA **24** p. 65.

†*Rhynchonella urtaensis* **sp. n.** pp. 223–224 pl. i fig. 2, *klunnikovi*, *nalivkini*, *pamirensis*, *prokopenkoi*, *soutachensis* **spp. n.** [nom. nud.] p. 221 Jurassic Russia (Pamirs), MOISSEIEV Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938.—*R. hustediaformis* **sp. n.** pp. 181–182 pl. vi figs. 2a–d Permian Karakorum, new sp. aff. *hoffmani* p. 182 pl. vi figs. 3a–c, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940.—*R.* cf. *fraasi*, aff. *plicatissima* p. 101, cf. *polygona* p. 150, sp. p. 185, DELEAU **9**.—*R. pleurodon* p. 59, cf. *contracta* p. 60 pl. iii fig. 20, cf. *multirugata* p. 60 pl. iii fig. 18, cf. *quadriplex* p. 60, sp. p. 61 pl. iii figs. 17, 19, GORSKY & TIMOFEEVA **18**.—*R. grasiana*, HÄGG **22** p. 225.—*R.* cf. *nobilis* p. 254, sp. aff. *varians* p. 255, RENZ **63**.—*R. psittacea*, RICHARDS **64** p. 50.—*R.* ? sp., TOULMIN **73** p. 230 pl. xxviii figs. 15–16.

Rhynchonella valdiviae **sp. n.** Recent Indian Ocean, HELMCKE Wiss. Ergebn. Deuts. Tiefsee Exped. 1898–9, **24** 3 1940 pp. 290–296 figs. 37–39.—*R.* distribution of subgenera discussed, HELMCKE **29**.

†*Tegulorhynchia* genus discussed pp. 279–281, *masoni* **sp. n.** Tertiary Australia pp. 283–284 pl. xxxvii figs. 7–8, *coelata* p. 281, *thomsoni* p. 282, ALLAN Rec. Canterbury (N.Z.) Mus. **4** 1940.—*T.* cf. *döderleini*, HAYASAKA **23** p. 34 text-fig.

DIMERELLIDAE.

Cryptopora pp. 282–286, *boettgeri* **sp. n.** pp. 286–289 figs. 27–33, 35a–c, **36** Recent S. Africa, ? *boettgeri* p. 289 *gnomon* fig. 35d, HELMCKE Wiss. Ergebn. Deuts. Tiefsee Exped. 1898–9 **24** 3 1940.—*C.* ? sp., TOULMIN **73** p. 229 pl. xxviii figs. 12–14.

ATRYPACEA.

ATRYPIDAE.

†*Atrypa nevadana* **sp. n.** p. 84 pl. vii figs. 18–19 Devonian U.S.A. (Nevada), cf. *missouriensis* pl. vii figs. 15–16, cf. *montanensis* pl. viii figs. 12–17, MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940.

SPIRIFERACEA.

SPIRIFERIDAE.

†*Ambocoelia planoconvexa* p. 202 pl. viii figs. 13a–d, n. sp. p. 203 pl. viii figs. 14a–b, RENZ **62**.

†*Brachythyris kumpani* **sp. n.** [nom. nud.] Carboniferous Russia, FOMITCHEV Trans. Centr. geol. prospect. Inst. U.S.S.R. **119** 1940 p. 33.

†*Cyrtospirifer portae* **sp. n.** pp. 88–89 pl. x figs. 8–10, 12, 13, 16, 19–21 Devonian U.S.A. (Nevada), *monticola* pl. x fig. 11, *whitneyi* pl. x figs. 14, 17 and var. *animasensis* pl. x figs. 15, 18, MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940.

†*Elytha johnsonensis* pp. 417–418 pl. i figs. 6, 9–11, pl. ii, figs. 7, 9, 14, *minor* pp. 415–417 pl. ii figs. 10–13, 15–18 **spp. n.** Carboniferous U.S.A. (Iowa), *subundifera* p. 414 pl. i figs. 1–5, 7–8 pl. ii fig. 8, *urbana* p. 420 pl. ii figs. 1–6, STAINBROOK Amer. Midl. Nat. Notre Dame **24** 1940.

†*Eomartiniopsis elongatus* **sp. n.** [nom. nud.] Carboniferous Russia, SOKOLSKAJA C.R. Acad. Sci. Moscou N.S. **26** 1940 p. 203.

†Martiniinae discussed, DOUGLAS **10** p. 330.

†*Martinia kirki* **sp. n.** pp. 85–86 pl. viii figs. 26–29 and var. *occidentalis* **var. n.** p. 86 pl. viii fig. 25, pl. xi figs. 1–2 Devonian U.S.A. (Nevada), *maia* pl. viii fig. 20, *meristoides* pl. viii fig. 21, *franklini* pl. viii fig. 24, *nevadensis* pl. viii fig. 22, *undifera* pl. viii fig. 23, MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940.—*M. sinuloba* **sp. n.** pp. 198–199 pl. viii figs. 2a–d, *squamularioides* var. *shaksgamensis* **var. n.** pp. 200–201 pl. vii figs. 7a–d Permian Karakorum, *corculum* p. 194 pl. viii figs. 1a–d, *elegans* p. 197 pl. vii figs. 5a–c, *nucula* p. 195 pl. vii figs. 6a–b, *semiglobosa* p. 196, *semiplana* p. 197, sp. p. 196, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940.—*M.* sp., GORSKY & TIMOFEEVA **18** p. 64.

†*Martiniopsis aschensis*, RENZ **62** p. 201 pl. viii figs. 12a–d.

†*Mentzelia* p. 330, *persica* **sp. n.** pp. 332–333 figs. 1–3 Permian Iran, DOUGLAS Geol. Mag. London **77** 1940.

†*Spirifer grandis* **sp. n.** [nom. nud.] p. 25 and var. *latissimus* **var. n.** [nom. nud.] p. 26, *tolmatschevi* **sp. n.** [nom. nud.] p. 26 Carboniferous Russia, FOMITCHEV Trans. centr. geol. prospect. Inst. U.S.S.R. **119** 1940.—*S. kobehana* **sp. n.** pp. 86–87 pl. vi figs. 8–10, pl. xi figs. 12–13 Devonian U.S.A. (Nevada), cf. *arenosa* pl. vii fig. 17 pl. xi fig. 17, *argentarius* p. 87 pl. viii figs. 5–11, pl. ix fig. 20 pl. xi figs. 5–7, *engelmanni* p. 87 pl. viii figs. 3–4, *pinyonensis* pl. vi fig. 3 pl. vii figs. 5–8, *utahensis* p. 89 pl. x figs. 5–7, MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940.—*S. lyraeformis* p. 183 pl. vi figs. 6a–d with var. *elegantulus* **var. n.** pp. 184–185 pl. vi figs. 7a–d Permian Karakorum, *fasciger* var. *moosakhailensis* p. 185, *tibetanus* var. *occidentalis* p. 187 pl. vi figs. 4a–b, 8a–d, cf. *tibetanus* p. 187, sp. p. 187, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940. —*S.* cf. *pesasicus* p. 62 pl. iii figs. 10–12, cf. *plenus* p. 62, cf. *striatus* p. 61 pl. iii figs. 6–9, cf. *tolmachevi* p. 62 pl. iii fig. 13, cf. *trigonalis* p. 62, sp. 1 p. 62 pl. iii fig. 14, sp. 2 p. 63 pl. iii fig. 15, sp. p. 63, GORSKY & TIMOFEEVA **18**.—*S.* ? sp., REED **61** p. 474.

†*Spirifer* (*Neospirifer*) *wynnei*, RENZ **62** p. 185 pl. vi figs. 5a–c.

†*Spiriferella gjeliensis* **sp. n.** [nom. nud. ? nom. nov. for *S. saranae* Nikitin non de Verneuil] Carboniferous Russia, STEPANOV C.R. Acad. Sci. Moscou N.S. **25** 1939 p. 758.

†*Squamularia transversalis* **sp. n.** pp. 192–194 pl. vi figs. 9a–d Permian Karakorum, *asiatica* p. 189, *dieneri* p. 191 pl. vi figs. 10a–c, *inaequilateralis* p. 189, *rostrata* p. 190 pl. vii figs. 4a–d, *waageni* p. 191, sp. p. 190, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940.

SPIRIFERINIDAE.

†*Spiriferina* (?) *akdjilgaensis* **sp. n.** Jurassic Russia (Pamirs), MOISSEIEV Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938 pp. 222–223 pl. i fig. 1.—*S. multiplicata* p. 204 pl. viii figs. 4a–d, *toulai* p. 206 pl. viii figs. 3a–d, *cristata* var. *octoplicata* p. 205 pl. viii figs. 5a–d, *margaritae* var. *dilatata* p. 207 pl. viii figs. 6–7, RENZ **62**.

ROSTROSPIRACEA.

MERISTELLIDAE.

†*Meristella robertsensis* **sp. n.** Devonian U.S.A. (Nevada), MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940 p. 84 pl. vi figs. 1–2, 13–16.

RHYNCHOSPIRINIDAE.

†*Hustedia indica* p. 208, *remota* p. 207, RENZ **62**.

†*Trematospira cooperi* **sp. n.** Devonian U.S.A. (Nevada), MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940 pp. 82–83 pl. vi fig. 12.

ATHYRIDAE.

†*Athyris pectinifera* var. *minima* **var. n.** p. 64 pl. iii fig. 16 Carboniferous Russia (Urals), sp. p. 64, GORSKY & TIMOFEEVA Trans. Central geol. prosp. Inst. U.S.S.R. **111** 1939.—*A. angelicoides* **sp. n.** Devonian U.S.A. (Nevada), MERRIAM Spec. Pap. Geol. Soc. Amer. **25** 1940 pp. 84–85 pl. x figs. 1–4.—*A. acutomarginalis* p. 209 pl. ix figs. 2–3, sp. aff. *planosulcata* p. 210 pl. ix fig. 1, RENZ **62**.

GRYPHOIDEA.

Gryphoidea **suborder n.** including superfamilies Terebratulacea and Terebratellacea, ALLAN Rec. Canterbury (N.Z.) Mus. **4** 1940 p. 269.

TEREBRATULACEA.

STRINGOCEPHALIDAE.

†*Stringocephalus* **sp.**, MERRIAM **48** pl. viii figs. 1–2.

MEGANTERIDAE.

†*Cryptonella circula* pl. ix fig. 8, *pinyonensis* pl. ix fig. 4, MERRIAM **48**.

DIELASMATIDAE.

†*Dielasma timanicum*, RENZ **62** p. 210 pl. ix fig. 9.—*Terebratula* (*D.*) *elongata* p. 211 pl. ix figs. 5a–c, 6a–c, 7a–c, sp. p. 213 pl. ix figs. 4a–c, RENZ **62**.

†*Hemiptychina dieneri* var. *quinqueplicata* **var. n.** Permian Karakorum, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940 pp. 213–215 pl. ix figs. 10a–d.

†*Notothyris* ? *taveli* p. 217 pl. ix figs. 13a–d, *wyssi* pp. 218–219 pl. ix figs. 14a–d **spp. n.** Permian Karakorum, RENZ Wiss. Ergeb. Niederl. Exped. Karakorum, Leiden **3** (2) 1940.—*N. nucleolus* p. 215 pl. ix figs. 15a–d and var. *simplex* p. 216 pl. ix figs. 11a–b, 12a–c, RENZ **62**.

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Agulhasia davidsoni, HELMCKE **29** p. 242 fig. 7.

Chlidonophora chuni, HELMCKE **29** p. 239 figs. 6a–e.

Dyscolia johannis-davisi p. 261 figs. 22, 25b, *wyvillei* p. 260 figs. 23–24, 25a, HELMCKE **29**.

†*Holcothyris* p. 5, *cooperi* pp. 7–8 fig. 2 pl. i figs. 9–11, *depressa* pp. 23–24 pl. ii figs. 11–12, *micromorpha* pp. 33–34 pl. i figs. 19a–c, *orbicularis* p. 24 pl. ii figs. 9–10, *ovata* pp. 26–27 pl. ii figs. 15a–c, *ovoides* pp. 32–33 pl. iii figs. 7a–c, *perplicata* p. 21 pl. ii figs. 14a–c, *raoi* pp. 34–35 pl. ii figs. 19a–c **spp. n.**, *rotunda* **sp. n.** pp. 31–32 pl. iii figs. 1–4, 6 with var. *pyriformis* **var. n.** p. 32 pl. iii figs. 5a–c, *subcurvata* pp. 14–15 pl. ii figs. 1–3 **sp. n.**, *acuminata* p. 21 figs. 18–19 pl. ii figs. 6–8, pl. iv figs. 8–10, *ancile* p. 27 figs. 22a–c, *angulata* p. 10 figs. 7a–c pl. ii figs. 16–17 with vars. *areolata* pp. 11–12 figs. 8a–c and *depressa* p. 11 pl. i figs. 17–18 **vars. n.**, *concava* p. 9 figs. 5–6 pl. i figs. 12–15 with var. *subexpansa* p. 10 pl. i figs. 16a–c **var. n.**, *curvata* p. 13 figs. 10a–c, *delta* p. 16 figs. 12–13 pl. ii figs. 13a–c, *dubia* p. 30 figs. 26a–c, *elliptica* p. 15 figs. 11a–c, *excavata* p. 19 figs. 16a–c pl. iv figs. 15–17, *flexa* figs. 15a–c pl. iv figs. 5–7, *laosensis* p. 17 figs. 14a–c, *luchiangensis* p. 25 figs. 20–21 pl. iii figs. 12–14 with var. *minor* **var. n.** p. 26 pl. ii figs. 18a–c, *macra* p. 8 figs. 3–4 pl. iii figs. 8–11, *plecta* p. 35 figs. 27a–c, *rostrata* p. 28 figs. 23a–c, *subangulata* p. 12 figs. 9a–c, pl. ii figs. 4–5, *subovalis* p. 6 figs. 1a–c pl. i figs. 1–8, *sulcata* p. 20 figs. 17a–c, *transversalis* p. 30 figs. 25a–c, pl. iv figs. 11–14, *trigonalis* p. 28 figs. 24a–c pl. iv figs. 3–4 with var. *pulchra* p. 29 pl. iv figs. 1–2 **var. n.** Jurassic Burma, SAHNI Palaeont. indica n.s. **30** 1 1940.

Liothyrina agulhasensis p. 258 fig. 21, *winteri* p. 255 figs. 17a–e, 18–20, HELMCKE **29**.

†*Rhaetina pamirensis* **sp. n.** Jurassic Russia (Pamirs), MOISSEIEV Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938 pp. 224–225 pl. i fig. 4.

†*Terebratula sinuosa sinuosa* p. 262 pl. vii figs. 5, 7, 9–11, 30, pl. viii figs. 3, 7, 9–11, pl. x figs. 5, 7, 13, 20, 23, pl. xi figs. 3, 9, 16, 19, pl. xii figs. 3, 5, 11, 13, 15, 21, 26, pl. xiii figs. 2, 3, 14, pl. xiv fig. 12 with vars. *fibrosa* p. 265 pl. viii fig. 14, pl. ix fig. 4, pl. x fig. 33, pl. xi fig. 2, pl. xiii fig. 4 and *globosa* pp. 266–267 pl. vii figs. 12–13, 15, 19, pl.

viii fig. 13, pl. ix fig. 8, pl. x figs. 14–15, 18–19, 22, pl. xi fig. 17, pl. xii figs. 2, 12, 18–20, pl. xiii figs. 5, 9, *elongata* pp. 267–268 pl. vii figs. 1–4, 26–29, pl. x figs. 10, 12, 16–17, pl. xi figs. 1, 4, 13, 15, pl. xii figs. 14, 16–17, 23, pl. xiii fig. 8, pl. xiv fig. 14 **vars. n.** Jurassic Italy, *sinuosa sinuosa* var. *pedemontana* p. 265 pl. vii figs. 14, 16, 23, pl. viii fig. 12, pl. ix figs. 3, 7, 11, pl. x figs. 6, 9, 11, pl. xi figs. 6, 10–12, pl. xii fig. 27, pl. xiii figs. 1, 17, 19, pl. xiv figs. 2–3, 9 and *pseudoscillae* p. 264 pl. viii figs. 1, 4–5, 8, pl. xi figs. 5, 7, 14, pl. xii figs. 1, 22, pl. xiii figs. 13, 15, pl. xiv figs. 7, 10, *sinuosa maugerii* p. 268 pl. x fig. 1, pl. xii fig. 6, pl. xiii fig. 12, pl. xiv fig. 18 with var. *triangularis* **var. n.** pp. 268–269 pl. vii figs. 8, 18, pl. viii fig. 6, pl. ix figs. 1, 2, 5, 14, pl. x figs. 24–25, pl. xii figs. 4, 7–10, 25, pl. xiii figs. 6–7, 10–11, pl. xiv fig. 17, *sinuosa subrotunda* **sp. n.** pp. 269–270 pl. vii figs. 22, 24, pl. ix figs. 6, 10, 12, pl. x figs. 2–3, 26–27, 30, pl. xiii figs. 20–22, 24, pl. xiv fig. 8 with var. *inflata* **var. n.** pp. 270–271 pl. vii figs. 20–21, pl. ix figs. 13, 15–16, pl. x figs. 8, 21, 32, pl. xi figs. 8, 18, pl. xiii figs. 18, 23, pl. xiv figs. 1, 4, 6, 16, *sinuosa elongatodepressa* **sp. n.** pp. 271–272 pl. vii figs. 6, 25, pl. viii fig. 2, pl. x figs. 4, 29, 31, pl. xii fig. 24, pl. xiii fig. 16 Jurassic Italy, Boni Riv. ital. Paleont. Pavia **40** supplement 1 1935.—*T. baranovi* pp. 228–229 pl. i fig. 3, *bobkovi* pp. 225–226 pl. ii fig. 9, *busterensis* pp. 229–230 pl. i fig. 5, *čachtepaensis* pp. 230–231 pl. ii fig. 8, *chabalkini* pp. 233–234 pl. i fig. 7, *klunnikovi* p. 235 pl. ii figs. 3–4, *kysylensis* pp. 232–233 pl. i fig. 6, *kysyltugajensis* pp. 226–227 pl. ii figs. 5–6, *murgabensis* pp. 227–228 pl. ii fig. 1, *tanimasensis* pp. 231–232 pl. ii fig. 2, *vinogradovi* p. 234 pl. ii fig. 7 **spp. n.**, *akdjilgaensis*, *karauldindalaensis*, *pamirensis* p. 221 **spp. n.** [nom. nud.] Jurassic Russia (Pamirs), Moisseiev Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938.—*T. capillata* Hügg **22** p. 225.—*T. perovalis*, sp. Renz **63** p. 253.

†*Terebratulina crossei*, *retusa*, Hayasaka **24** p. 67.—*T.* sp., Toulmin **73** p. 230 pl. xxviii figs. 17–21.

Terebratulina magalhaenica **sp. n.** pp. 22–25 figs. 19–24 Recent S. America, *crossei* pp. 17–22 figs. 1–18, Helmcke Z. wiss. Zool. Leipzig **152** 1939.—*T. abyssicola* p. 243 figs. 8a–d, 9–12, *retusa* p. 243, *valdiviae* p. 250 figs. 13a–d, 14–16, Helmcke **29**.

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Terebratellacea **superfam. n.** pp. 267, 269, including families Megathyridae, Platidiidae, Kraussinidae, Zeilleriidae pp. 267, 269 Dallinidae pp. 267, 270 **fams. n.**, Terebratellidae King 1850, Allan Rec. Canterbury (N.Z.) Mus. **4** 1940.

Terebratellidae.

†*Argyrotheca saltmountainensis* **sp. n.** Eocene U.S.A. (Alabama), Toulmin J. Paleont. Menasha, Wis. **14** 1940 pp. 231–232 p. xxviii figs. 22–28.

†*Aulacothyris alveata*, Renz **63** p. 254 pl. xv figs. 6a–c.

Bouchardiinae **subfam. n.** of Terebratellidae, with genera *Bouchardia* Dav. 1850, *Bouchardiella* Doello-Jurado 1922 and *Neobouchardia* Thomson 1927, Allan Rec. Canterbury (N.Z.) Mus. **4** 1940.

Dallina septigera, Helmcke **29** p. 275.

Frenulina sanguinolenta, Hayasaka **25** p. 44.—*F. alcocki*, Helmcke **29** p. 278.

Kraussina mercatori **sp. n.** Recent West Africa, Helmcke Mém. Mus. Hist. nat. Belg. (2) **15** 1939 pp. 138–139 pl. figs. 1–4.—*K.* p. 269, *deshayesi* p. 274 fig. 26a, *pisum* p. 274 fig. 26b, *rubra* p. 273, Helmcke **29**.

†*Laqueus hanawensis*, *suffusus*, Hayasaka **24** p. 66.

Megathyris decollata, Helmcke **29** p. 267.

†*Magas serpigensis* [?] **sp. n.** Cretaceous Brazil, Oliveira Ann. Acad. Bras. Sci. Rio **11** 3 1939 pp. 196–8 1 fig.

†*Neobouchardia* p. 284, *minima* p. 285, Allan **2**.

Neothyrinae **subfam. n.** of Terebratellidae, with genera *Neothyris* Douvillé 1879, *Pachymagas* von Ihering 1903, *Gyrothyris* Thomson 1918, *Stethothyris* Thomson 1918, *Waiparia* Thomson 1920, *Malleia* Thomson 1927, *Jaffaia* Thomson 1927, *Cudmorella* Allan 1939, Allan Rec. Canterbury (N.Z.) Mus. **4** 1940.

†*Pachymagas* p. 293, *balfourensis* **sp. n.** pp. 294–295 pl. xxxvii figs. 1–3 Tertiary New Zealand, ALLAN Rec. Canterbury (N.Z.) Mus. **4** 1940.

†*Platidia* ? sp., TOULMIN **73** p. 233 pl. xxviii fig. 29.

†*Stethothyris epsilon* **sp. n.** pp. 287–289 pl. xxxv fig. 2, pl. xxxvi figs. 1–2 Tertiary New Zealand, *uttleyi* p. 286 pl. xxxv fig. 5, ALLAN Rec. Canterbury (N.Z.) Mus. **4** 1940.

†*Terebratalia coreanica*, *transversa*, HAYASAKA **24** p. 66.

Terebratella sp., HAYASAKA **25** p. 44 fig. 2.

†*Victorithyris* **gen. n.** pp. 289–290 for type *V. peterboroughensis* **sp. n.** p. 291 pl. xxxv fig. 6, pl. xxxvii figs. 4–6 Tertiary Australia (Victoria), *pectoralis* p. 291 pl. xxxv fig. 3, *sufflata* p. 292 pl. xxxv fig. 4, ALLAN Rec. Canterbury (N.Z.) Mus. **4** 1940.

Waldheimiathyris p. 274, *cranium* p. 275, HELMCKE **29**.

†*Zeilleria kysylrabatensis* **sp. n.** p. 236 pl. ii fig. 10, *kurtekensis* **sp. n.** [nom. nud.] Jurassic Russia (Pamirs), MOISSEIEV Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938.

†*Zelleria* [sic, err. typ. pro *Zeilleria* ?] *engelhardti*, DELEAU **9** p. 101.

INCERTAE SEDIS.

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VIII. BRYOZOA (POLYZOA).

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ANNA B. HASTINGS, M.A., Ph.D.

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Andronov, S. M. *vide* Bolkhovitinova, M. A.

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II.—SUBJECT INDEX.

GENERAL.

General Textbooks, Buchsbaum, **5**; Hyman, **14**; Lowenstein, **17**.

Catalogue North American Devonian Fenestrellinidae with reproductions of original figures and descriptions, Fritz & Stewart, **9**; Some Paleozoic genera, Lang, Smith & Thomas, **16**.

Leeuwenhoek's observations on *Membranipora*, Cole, **7**.

Structure of *Victorella* (*Sundanella*) *sibogae*, Braem, **2**; of pharynx, Braem, **4**; of *Pottsiella*, *Paludicella* and *Bowerbankia* compared, Braem, **3**.

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Permian.—U.S.S.R., NIKIFOROVA, **25**; Karakorum, RENZ, **30**; WYSS, **36**; N. Arizona & S. Utah, U.S.A., MCKEE, **18**.

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GYMNOLÆMATA.

CTENOSTOMATA.

Paludicella articulata, ROGICK **32** p. 194.

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†*Ceriopora tumulifera, strophiae* **spp. n.** Miocene France, CANU & LECOINTRE Mém. Soc. géol. Fr. **9** 4 1934 pp. 203–205.

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†*Filisparsa andegavensis*, CANU & LECOINTRE **6** p. 181.

†*Fistuliphragma jonesi* **sp. n.** Devonian Canada, FRITZ Contr. Ont. Mus. Pal. Toronto **4** 1940 p. 5.

†*Fistulipora megalopora, anomala, delicata* **spp. n.** Devonian Colombia, MCNAIR Bull. Amer. Paleont. Ithaca **25** 93 1940 pp. 10–11; *F. cylindracea* [*culindracea* in heading to Russian text] **sp. n.** Silurian U.S.S.R., NEKHOROSHEV Trans. geol. prosp. Serv U.S.S.R. **61** 1936 pp. 30, 36.

†*Heteropora intricata*, CANU & LECOINTRE **6** p. 199.

†*Hornera reteporacea, radians, frondiculata, striata,* CANU & LECOINTRE **6** pp. 182–186.

†*Lichenopora mucronata, proposita, tubulifera, convergens, tenuifasciculifera, multifascigera, bassleri, meandriformis* **spp. n.**, *L. licheniformis, echinulata, stelliformis, fungicula, armorica, cumulata,* Miocene France, CANU & LECOINTRE Mém. Soc. géol. Fr. **9** 4 1934 pp. 191–196.

†*Meandropora cerebriformis,* CANU & LECOINTRE **6** p. 205.

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†*Tretocycloecia dichotoma,* CANU & LECOINTRE **6** p. 197.

†*Vermipora* discussed, LANG, SMITH & THOMAS, **16** p. 138.

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†*Amplexipora* emend. pro *Amplexopora,* LANG, SMITH & THOMAS **16** p. 16.

†*Amplexopora,* a Bryozoan, *vide Amplexipora.*

†*Batostoma* (?) sp., NEKHOROSHEV **24** pp. 12, 20.

†*Lioclema mcgerriglei* **sp. n.** Devonian Canada, FRITZ Contr. Ont. Mus. Pal. Toronto **4** 1940 p. 6.—*L.* aff. *cellulosum,* NEKHOROSHEV **24** p. 31.

†*Monotrypella cromfordensis* **sp. n.** Carboniferous Germany, NEKHOROSHEV Abh. preuss. geol. LdAnst. **141** 1932 p. 65.

†*Tabulipora* conf. *montifera,* NEKHOROSHEV **23** p. 65.

CRYPTOSTOMATA.

†*Acanthocladiidae,* general account, NEKHOROSHEV **23** pp. 41–45.

†*Acanthoclema cavernosa* **sp. n.** Carboniferous Germany, NEKHOROSHEV Abh. preuss. geol. LdAnst. **141** 1932 p. 64.

†*Chasmatopora* sp. ex. gr. *sublaxa, Chasmatopora* sp., NEKHOROSHEV **24** pp. 10, 18, 29, 36.

†*Chasmatoporella* **gen. n.** (Phyllopori-nidae) genotype *C. metzi* **sp. n.** Silurian Italy, NEKHOROSHEV Trans. geol. prosp. serv. U.S.S.R. **61** 1936 pp. 7, 15.

†*Fenestella gracilis, virgosiformis, paeckelmanni, irregularis* **spp. n.** *F. paeckelmanni* var. *trapezoidea* **var. n.** *F. compressa, angustata,* aff. *serrulata,* aff. *triserialis, rudis,* conf. *longa,* Carboniferous Germany, NEKHOROSHEV Abh. preuss. geol. LdAnst. **141** 1932 pp. 48–56.—*F. elusa,* RENZ **30** p. 122.

†Fenestellidae, general account, NEKHOROSHEV **23** pp. 17–41.

†*Fenestralia permiana* **sp. n.**, *F. permiana* var. *viatkensis* **var. n.** Permian U.S.S.R., NIKIFOROVA C.R. Acad. Sci. Moscou **26** 1 1940 pp. 111, 112.

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†*Graptodictya* sp., NEKHOROSHEV **24** pp. 11, 19.

†*Hemitrypa* spec. aff. *perstriata,* NEKHOROSHEV **23** p. 58.

†*Intrapora fragilis, megalopora* **spp. n.** Devonian Colombia, MCNAIR Bull. Amer. Paleont. Ithaca **25** 93 1940 pp. 11–12.

†*Loculipora,* general account, *L. karagandensis* **sp. n.** Silurian U.S.S.R., NEKHOROSHEV Trans. geol. prosp. serv. U.S.S.R. **61** 1936 pp. 24, 27, 33, 35.

†*Pachydictya* sp. ex. gr. *acuta,* NEKHOROSHEV **24** pp. 11, 19.

†*Pinnatopora bipinnata,* NEKHOROSHEV **23** p. 61.

†*Polypora elegantula, granulifera* **spp. n.** Devonian Colombia, McNair Bull. Amer. Paleont. Ithaca **25** 93 1940 p. 18. —*P. transiens, gigantea, biarmica, P.* sp. indet., Renz **30** pp. 119, 120, 123.

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†*Ptilopora* conf. *valida*, Nekhoroshev **23** p. 58.

†*Orthopora bifurcata* **sp. n.** Carboniferous Germany, Nekhoroshev Abh. preuss. geol. LdAnst. **141** 1932 p. 63.

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†Rhabdomesontidae, general account, Nekhoroshev **23** pp. 45–47.

†*Semicoscinium lineatum* **sp. n.** Silurian U.S.S.R., Nekhoroshev Trans. geol. prosp. Serv. U.S.S.R. **61** 1936 pp. 28, 35.—*S. colombiensis, minutum* **spp. n.** Devonian Colombia, McNair Bull. Amer. Paleont. Ithaca **25** 93 1940 pp. 15, 16.

†*Sulcoretepora subramosa, olssoni* **spp. n.** Devonian Colombia, McNair Bull. Amer. Paleont. Ithaca **25** 93 1940 p. 19.

†*Taeniopora florestae* **sp. n.** Devonian Colombia, McNair Bull. Amer. Paleont. Ithaca **25** 93 1940 p. 20.

†*Unitrypa casteri* **sp. n.** Devonian Colombia, McNair Bull. Amer. Paleont. Ithaca **25** 93 1940 p. 17.

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Cornucopina antillea **sp. n.** Recent W. Indies, Osburn Smithson. misc. Coll. **91** 30 1940 p. 1.

†*Membranipora lacroixii*, Rogick **31** p. 164.

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†*Cylindripora* possibly a Bryozoan, vide *Cylindropora*.

†*Cylindropora* emend. pro *Cylindripora*, Lang, Smith & Thomas **16** p. 46.

†*Dendropora* possibly a Bryozoan, Lang, Smith & Thomas **16** p. 49.

†*Dendrozoum* possibly a Bryozoan, Lang, Smith & Thomas **16** p. 49.

†*Dictyopora* Steininger possibly a Bryozoan, Lang, Smith & Thomas **16** p. 51.

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1.—Abe, N. The homing spawning and other habits of a limpet, *Siphonaria japonica* Donovan. Sci. Rep. Tôhoku Univ. (4) **15** 1 1940 pp. 59–95 tables text-figs.

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13.—Andrews, E. A. *Neritina virginea* in Jamaica. Nautilus Philad. **54** 1 1940 pp. 21–27.

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18.—Ashby, E. & **Cotton,** B. C. New fossil Chitons from the Miocene and Pliocene of Victoria. Rec. S. Aust. Mus. Adelaide **6** 3 1939 pp. 209–242 pls. xix–xxi.

19.—Atz, J. W. The timid Octopus. Bull. New York zool. Soc. **43** 1940 pp. 48–54 text-figs.

20.—Baba, K. The early development of a solenogastre *Epimenia verrucosa* (Nierstrasz). Annot. zool. jap. **19** 1940 pp. 107–113 17 text-figs.

21.—Baily, J. L. *Chondropoma dentatum.* Nautilus, Philad. **54** 1 1940 p. 32.

22.—Baily, jr., J. L. & **Baily,** R. I. A new Urocoptid mollusc from the State of Sonora Mexico. Nautilus Philad. **53** 3 1940 pp. 94–95 pl. 12 fig. 1.

23.—Baker, F. C. South American species referred to *Planorbula.* Nautilus Philad. **53** 3 1940 p. 106.

24.—Baker, F. C. The case of *Limnaeus sordidus* Kuester. Nautilus Philad. **53** 4 1940 pp. 138–140.

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28.—Baker, H. B. New names for Puerto Rican snails. Nautilus Philad. **53** 3 1940 p. 107.

29.—B[aker], H. B. Another case [of aestivation of freshwater mussels, *vide* Schalie Title 390] Nautilus Philad. **53** 4 1940 p. 138.

30.—B[aker], H. B. Exact dates of the Nautilus. Nautilus Philad. **54** 1 1940 p. 32.

31.—Bangham, R. V. & **Hunter,** G. W. Studies on fish parasites of Lake Erie. Distribution studies. [Mollusca p. 414.] Zoologica New York **24** 1939 pp. 385–448 tables.

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Note.—The arrangement here used follows, in general, that of Thiele's Handbuch. The most important differences are that Epitoniacea *and* Pyramidellacea *are placed immediately preceeding* Muricacea *in order of grouping and the families* Triviidae *and* Eratoidae *are placed in* Lamellariacea.

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†*Lepidopleurus nivarus* Lower Miocene p. 222, pl. xix, f. 5; *L. pamphilius* Lower Miocene p. 222, pl. xix f. 2; *L. badioides* Lower Miocene p. 222, pl. xix f. 4, xxi, f. 47; *L. uxellus* Lower Miocene p. 223, pl. xix f. 13; *L. relatus* Lower Miocene p. 224, pl. xix f. 12; *L. sephus* Pliocene p. 225, pl. xix f. 11; *L. sinervus* Pliocene p. 225, pl. xix,

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Parachiton verconis **sp. n.** St. Francis Island, S. Australia, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939, p. 183, pl. vii, f. 2.

Terenochiton iscus **sp. n.** Gulf of S. Vincent, S. Australia, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 p. 182 pl. vii, f. 1.

CHITONACEA.

Acanthochiton (*Notoplax*) *rottnestensis* Ashby 1929 placed in genus *Craspedochiton* Shuttleworth; *Acanthochiton deliciosus* Thiele 1911 probably = *A. kimberi juv.* Torr, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 p. 185.

†*Acanthochiton forsythensis* Miocene **sp. n.** p. 213 pl. xx, f. 26; *A.f. relatus* **subsp. n.** Lower Miocene p. 214; *A. drunus* Pliocene **sp. n.** p. 214, pl. xx, f. 29; *A. casus* **sp. n.** Lower Miocene p. 214 pl. xx, f. 30; *A. sabratus* **sp. n.** Lower Miocene p. 215, pl. xx f. 25; *A.* (*Lirachiton*) *inexpectus* **sp. n.** Pliocene p. 215 pl. xx, f. 31; *A. pilsbryoides* **sp. n.** Lower Miocene p. 216 pl. xx, f. 27; *A. trianguloides* **sp. n.** Pliocene p. 216 pl. xx, f. 28 **spp. n.** Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939.

†*Acanthochitona spiculosa* Rue. figs., C. T. BERRY 40.

Acutoplax **gen. nom.** Lepidochitonidae type *Callochiton mayi* Torr. 1912, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939, p. 189; *Acutoplax cottoni* **sp. n.** Spencer Gulf, S. Australia, WEEDING Trans. roy. Soc. S. Australia **64** 1 1940 p. 48, pl. iv f. 1 1a.

Afossochiton (*Telochiton*) *dendus* Lower Miocene p. 211 pl. xx f. 24; *A.* (*T.*) *iscus* Lower Miocene p. 212 pl. xix f. 20; *A.* (*T.*) *magnicostatus* Pliocene p. 212 pl. xx f. 23 **spp. n.** Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939.

†*Afossochiton sulci* **sp. n.** Pliocene Victoria, ASHBY & COTTON Rec. Aust. Mus. Adelaide **6** 3 1939 p. 210 pl. xx f. 21.

Anthochiton macdonaldensis p. 234 pl. xxi f. 39; *A. duodeni* p. 235 pl. xx f. 38; *A. octocostatus* p. 235 pl. xxi f. 40 **spp. n.** Pliocene Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939.

Callistochiton greedi Pliocene p. 232 pl. xxi f. 41; *C. reticulatus* Lower Miocene p. 233 pl. xxi f. 44, 45; *C. inexpectus* Pliocene p. 233 pl. xxi f. 41, 42 **spp. n.** Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939.

†*Callochiton macdonaldi* **sp. n.** Lower Pliocene Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939 p. 227 pl. xxi f. 46.

†*Chaetopleura apiculata* (Say) figs., C. T. BERRY **40.**

†*Chiton cretaceus* **sp. n.** Cretaceous Tennessee, C. T. BERRY Proc. Acad. nat. Sci. Philad. **91** 1940 p. 211 pl. ix f. 1–3, pl. x f. 1–2.

Choriplacidae **fam. nov.** for *Choriplax*, *C. pattisoni* Ashby 1921, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 pp. 185, 187.

Crocochiton **gen. nov.** Cryptoconchidae type *Acanthochiton crocodilus* Torr & Ashby, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 p. 187.

Cryptoplax striata occidentalis Iredale & Hull 1925 = *Cryptoplax westernensis* Ashby 1923 as "sp. n." p. 199, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 pl. vii f. 4; *Cryptoplax sicus* p. 219 pl. xix f. 17; *C. numicus* p. 219 pl. xix f. 18 **spp. n.** Pliocene Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939.

Ischnochiton hewitti Ashby 1931 figs., E. LELOUP **244.**

†*Ischnochiton vinazus* Pliocene p. 228 pl. xx f. 36; *I. tisurus* Pliocene p. 228 pl. xix f. 15, pl. xx f. 35; *I. cossyrus* Pliocene p. 229 pl. xx f. 37; *I. numantius* Pliocene p. 229 pl. xix f. 16; *I. durius* Pliocene p. 230 pl. xx f. 33; *I. neglectus* Pliocene p. 231 pl. xx f. 34; *Ischnochiton* (*Radsiella*) *cliftonensis* p. 231 pl. xix f. 14 Lower Miocene **spp. n.** Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939.—*Ischnochiton papillosus* (C. B. Adams) figs., C. T. BERRY **40.**

Isoplacophora **ord. nov.** includes families Cryptoconchidae, Cryptoplacidae, Choriplacidae and Plaxiphoridae, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 p. 185.

Kopionella placed in fam. Plaxiphoridae, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 p. 188.

†*Lirachiton* **subgen. nov.** of *Acanthochiton* type *A.* (*L.*) *inexpectus* **sp. n.** Pliocene Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939 p. 215 pl. xx f. 31.

Lorica oculea p. 237 pl. xxi f. 48; *L. varena* p. 238 pl. xxi f. 49 **spp. n.** Lower Miocene Victoria, ASHBY & COTTON Rec. S. Aust. Mus. Adelaide **6** 3 1939.—*Lorica elliottae* **sp. n.** Rottnest Island, W. Australia, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 p. 189 pl. vii f. 9.

Loricella magnopustulosa p. 235 pl. xxi f. 50, 53; *L. concava* p. 236 pl. xxi f. 51 **spp. n.** Pliocene Victoria, ASHBY & COTTON Rec. S. Austl. Mus. Adelaide **6** 3 1939.

Mucrosquama nielseni Hardwicke Bay, S. Australia p. 190 pl. vii f. 8; *M. sheardi* dredged Spencer Gulf, S. Australia p. 190 **spp. n.**, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939.

Ovatoplax **subgen. nov.** of *Ischnochiton* type *Ischnochiton* (*Haploplax*) *mayi* Pilsby 1895, COTTON & WEEDING Trans. roy. Soc. S. Australia **63** 2 1939 p. 184.

Squamopleura miles, formes *salisburyi*, *miles* s.st. *imitator* distribution, E. LELOUP **243**.

Teleoplacophora contains families Loricidae, Lepidochitonidae, Chitonidae, COTTON & WEEDING **82**.

Telochiton **subgen. nov.** of *Afossochiton* type *A.* (*T.*) *dendus* **sp. n.** Lower Miocene Victoria, ASHBY & COTTON Rec. Aust. Mus. Adelaide **6** 3 1939 p. 211 pl. xx f. 24.

Gastropoda.

STREPTONEURA.

ASPIDOBRANCHIATA.

RHIPIDOGLOSSA.

HALIOTIDACEA.

†*Ambychilepas* err. pro *Amblychilepas*, L. R. Cox Bol. Serv. Ind. Min. Geol. Col. Moçambique **3** 1939 p. 41.

Aviscutum **subg. nov.** of *Scutum*, type *S. olunguis*, IREDALE Austl. Zoologist **9** 4 1940 p. 430.

†*Bellerophon scotti* **sp. n.** Northview siltstone, King Butts, Missouri, Mississippian (Carboniferous) U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 4 1938, p. 41 pl. xxiv f. 12, 13.

†*Bembexia shepardi* **sp. n.** Northview shales, King Butte, Missouri, Mississippian (Carboniferous) U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 4 1938 p. 42 pl. xxiv, f. 22–24.

†*Borestus* **gen. nov.** pp. 36, 53 Pleurotomariidae type *B. wrighti* **sp. n.** p. 54 pl. iii f.1a–b, *B. procerus* **sp. n.** p. 55 pl. iii f. 2a–b, Carboniferous Scotland, E. G. THOMAS Trans. Geol Soc. Glasgow **20** 1 1940.

†*Coelodiscus swindonensis* vars. *corrugatus*, *cancellatus* **vars. nov.** Pebble sand Swindon, W. S. ARKELL Proc. Geol. Ass. London **51** 4 1940 p. 386 test-figs. 52, 2, 3.

†*Discohelix grönwalli* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 50 pl. 1 f. 19a–c, 20a–c.

Dolichoschisma **gen. nov.** type *producta* A. Adams *D. p. munita* **subsp. nov.**, Geraldton, West Australia, IREDALE Austl. Zoologist **9** 4 1940 p. 431.

†*Paliseria* "**gen. n.**" Euomphalidae, A. E. WILSON Can. Nat. vol. xxxviii **8** p. 150.—*P. robusta* fig., A. E. WILSON **468**.

†*Euomphalus multistriatus* **sp. n.** Chouteau limestone, Sedalia, Missouri, Mississippian (Carboniferous) U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938 p. 105 pl. xiv f. 1.

†*Euphemites vittatus*, *blaneyassus*, *inspeciosus*, *nodocarinatus* figs, from the Pennsylvanian of Texas, R. H. KING **209**.

Forolepas **gen. nov.** [non. descr.] type *Macroschisma tasmaniae* Sow., IREDALE Austl. Zoologist **9** 4 1940 p. 431.

†*Glabrocingulum* **gen. nov.** Pleurotomariidae pp. 35, 38, type *G. beggi* **sp. n.** pp. 38, 39 pl. ii f. 1a–d No. 1939–6 Dunlop Coll. Roy. Scot. Mus. (Geol. Dep.), *G. armstrongi* **sp. n.** p. 42 pl. ii f. 3a–b, Carboniferous Scotland, E. F. THOMAS Trans. Geol. Soc. Glasgow **20** 1 1940.

Haliotis sorenseni **sp. n.** H. Conception California p. 50 pl. vi ; *Haliotis rufescens hattorii* **subsp. n.** Santa Barbara p. 52 pl. viii f. 4–6 ; *H. aulaea* 8–10 pus. H. Caqucas California p. 53 pl. viii f. 1–3 ; *H. smithsoni* Catalina Id. p. 54 pl. viii f. 7–9 ; **spp. n.** West America, P. BARTSCH Proc. U.S. nat. mus. **89** 3094 1940.—*Haliotis walallensis*, H. MCGULLY **258.**

†*Hesperiella locedoni* sp. n. [**nom. nov.**]=*H. acuta* de Koninck 1852 non Phillips, E. G. THOMAS Trans. Geol. Soc. Glasgow **20** 1 1940 p. 52 pl. iii f. 3a–b.

†*Hypselentoma welleri* **sp. n.** Carboniferous Scotland, E. G. THOMAS Trans. Geol. Soc. Glasgow **20** 1 1940 p. 65 pl. iii f. 6a–b.

†*Latischisma* **gen. nov.** Pleurotomariidae pp. 38, 59 type *L. globosa* **sp. n.** p. 60 pl. iv f. 1a–c ; *L. g. nitida* **var. nov.** p. 61 pl iv f. 2a–d, Carboniferous Scotland, E. G. THOMAS Trans. Geol. Soc. Glasgow **20** 1 1940.

†*Lecanospira tasmanensis* **sp. n.** Lower Ordovician Junee, Tasmania, T. KOBAYASHI Pap. roy. Soc. Tasm. **1939** [1940] pp. 61, 63 pl. xi f. 11.

†*Lophospira occidentalis* fig., A. E. WILSON **468.**

Macroschisma enopa **sp. n.** Lord Howe Is., IREDALE Austl. Zoologist **9** 4 1940 p. 430 pl. xxxii f. 9.

Megathura crenulata sperm agglutination, A. TYLER **449.**

†*Murchisonia joceldii* Breede, J. M. HILLS **288.**

†*Neilsonia* **gen. nov.** Pleurotomariidae, type *N. roscobiensis* **sp. n.** N. 1100 J. Wright Coll. Geol. Surv. Coll. Edinburgh pp. 36, 46 pl. ii f. 7a–b ; *N. acuminata* **sp. n.** 1939.3.3 Armstrong Coll. Roy. Scot. Mus. (N.H.) p. 48 pl. ii f. 8a–b, Carboniferous Scotland, E. G. THOMAS Trans. Geol. Soc. Glasgow **20** 1 1940.

†*Pleurotomaria laevis* (Pultency) fig., L. R. COX **86.**

†*Pleurotomarium*, E. G. THOMAS **436.**

†*Raphistoma bröggeri* Lor., I. KOBAYASHI **212.**

†*Schismope tertia* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 434 f. 29.

†*Scissurella geoffreyi* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 434 f. 28.

Scissurona fossilis **sp. n.** Pliocene Nukumaru, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 37, 48 pl. vi f. 20.

Scutus howensis **sp. n.** Lord Howe Is., IREDALE Austl. Zoologist **9** 4 1940 p. 429 pl. xxxii f. 5, 6.

†*Straparollus kingi* Northview shale King Butte, Missouri p. 43 pl. xxiv f. 28–30 ; *S. northviewensis* Northview siltstone Northview p. 43 pl. xxiv f. 6–8, 10 **spp. n.** Lower Mississippian [Carboniferous] U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 4 1938.

†*Waagenoconcha* occurrences, J. B. KNIGHT **211.**

†*Worthenia dunlopi* **sp. n.** Upper Limestone Group p. 43 pl. ii f. 4a–c ; *W. gairensis* **sp. n.** Upper Limestone Group p. 44 pl. ii f. 6a–b ; Carboniferous Scotland, E. G. THOMAS Trans. Geol. Soc. Glasgow **20** 1 1940.

†*Yvania parva* **sp. n.** Carboniferous Scotland, E. G. THOMAS Trans. Geol. Soc. Glasgow **20** 1 1940 p. 63 pl. iii f. 4a–c.

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PATELLACEA.

Acamaca persona, pelta, scutum, digitalis show no tendency to homing, VILEE & GROODY **452.**

†*Acmaea poulseni* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 53 pl. i f. 25a, b.

Ancylastrum fluviatile Müll. in River Melindwr Wales vide pp. 193–200, J. R. E. JONES **196.**

†*Archinacella* ? *porifera* **sp. n.** Caradocian. Balchatchie beds Ardmillan nera Girvan, Ayrshire, F. R. C. REED Ann. Mag. nat. Hist. **6** (11) 1940 p. 157 pl. viii f. 6a–c.

Cellana howensis p. 432 pl. xxxii f. 1, 13, pl. xxiii f. 4–6 Neds Beach, Lord Howe Id. ; *C. analogia* p. 432 pl. xxxii f. 2, 14, pl. xxxiii f. 7–9 Roach Islands, Ld. Howe Id. ; *C. conciliata* p. 432 pl. xxxiii f. 1, 2, 3, 19, 20 Keppel Bay, N. Queensland ; *C. contica* p. 433

pl. xxxiii f. 10–12 Caloundra, S. Queensland; *C. turbator* p. 433 pl. xxxiii f. 16–18 Caloundra, S. Queensland; *C. endora* p. 433 pl. xxxiii f. 13–15 New Caledonia **spp. n.**, IREDALE Austl. Zoologist **9** 4 1940.

Helcioniscus exaratus Nuttall, *H. argentatus* Sow. Chemical contents relative to use as food, MILLER & ROBBINS **287**.

Heleioniscus err pro *Helcioniscus*, MILLER & ROBBINS Philipp. J. Sci. Manila **71** 2 1940 p. 163 **287**.

Patella depressa, vulgata an ecological study, A. ESLICK **104**; *Patella vulgata* L. duration of life, FISCHER-PIETTE **113**.

Trimusculus Schmidt, genotype designated *Trimusculus mammillaris* Linné (*Patella mammillaris* L.), REHDER Proc. biol. Soc. Washington **53** 1940 p. 68.

TROCHACEA.

†*Anceps* **sect. nov.** Trochidae type *Trochus anceps* Eichw. Miocene, V. KOLESNIKOV C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 701.

†*Basilissa ödumi* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 51 pl. i f. 24a–c.

†*Brookula* (*Aequispirella*) *kaawaensis* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 435 f. 26.

Calthalotia porteri **sp. n.** Lord Howe Id., IREDALE Austl. Zoologist **9** 4 1940 p. 431 pl. xxxii f. 10.

†*Crosseola waitotara* **sp. n.** Wilkin Bluff Pliocene New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 37, 49 pl. vi f. 18.

†*Cyclostrema denselineatum* **sp. n** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 52 pl. i f. 26a–c.

†*Delphinula* (*Nododelphinula*) *boloniensis* **nom. nov.** for *D. vivauxea* Loriol 1866 non Buvignier 1852, W. S. ARKELL Proc. Geol. Ass. London **51** 4 1940 p. 387.

†*Elachorbis hawera* Waiki Beach pp. 37 48 pl. vi f. 22, pl. vii f. 29; *E. unicarina* Wilkies Bluff pp. 37 48 pl. v f. 5, **spp. n.** Pliocene New Zealand LAWS Trans. Roy. Soc. N.Z. **70** 1 1940.

†*Feneoniana* **sect. nov.** [non. descr.] Trochidae type *Trochus feneonianus* Orb. Miocene, KOLESNIKOV C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 701.

Gibbula cineraria, umbilicalis. H. B. MOORE **293**.

†*Holopea missouriensis* **sp. n.** Northview shale, King Butte, Missouri; Mississippian [Carboniferous] U.S.A., BRANSON Univ. Mo. Stud. **13** 4 1938 p. 44 pl. xxiv f. 9, 11, 17.

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†*Pectiformes* **sect. nov.** Trochidae type *Monodonta neamilla* Andez Miocene, V. KOLESNIKOV C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 701.

Plocamotis illusus **sp. n.** Norfolk Island, IREDALE Austl. Zoologist **9** 4 1940 p. 436.

†*Robur* **sect. nov.** [non. descr.] Trochidae type *Trochus robur* David, V. KOLESNIKOV C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 701.

†*Rollandiana* **sect. nov.** Trochidae type *Trochus rollandianus* Orb. Middle Miocene, V. KOLESNIKOV C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 701.

†*Sarmates* **sect. nov.** Trochidae type *Trochus sarmates* Eichw. Miocene, V. KOLESNIKOV C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 701.

Tibatrochus **gen. n.** [non. descr.] *husaensis* **sp. n.** off Tiba Prefecture, Japan, S. NOMURA Rec. oceanogr. Works Japan **12** 1 1940 p. 103 pl. i f. 10a, b.

Tricolia indica **sp. n.** Madras, WINCKWORTH Proc. Malac. Soc. **24** 2 1940 p. 41 fig. 1.

Turbo argyrostomus, chrysostomus stenogyrus, articulatus, sparcerius, setosus, fig., T. KURODA **223**; *Turbo cornutus* variation, MATSUI & UCHIHASKI **274**.

†*Umbonium miyagiense* **sp. n.** Neogene Sennan District, Miyagi Prefecture, Japan, NOMURA & ONISI Jap. J. Geol. Geogr. Trans. & Abs. **17** 3/4 1940 p. 184 pl. xviii f. 13–16.

†*Zalipais probenthicola* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 435 f. 8.

NERITACEA.

Neritina virginea in Jamaica, E. A. ANDREWS **13.**

PECTINIBRANCHIA.

TAENIOGLOSSA.

CYCLOPHORACEA.

Acanthotropis **subgen. nov.** of *Vivipara* type *Vivipara partelloi* Bartsch Lake Lanao Mindanao, Philippines, F. HAAS Field Mus. Pub. Zool. Chicago **24** 1939 p. 95.

Campeloma leptum mill pond, nr. St. Thomas, Ontario p. 12 pl. i f. 1–3, text-fig. 7–8 ; *C. tannum* Speed River nr. Hespeler, Ontario p. 15 pl. i f. 4–6, text-figs. 9, 10 ; **spp. n.** Canada, N. T. MATTOX Nautilus **54** 1 1940 ; *Campeloma* reversed example from Chicago area, F. HAAS **143** ; *Campeloma* sp. ? cf. *C. decisum* Speed River, Hespeler, Ontario, life cycle, J. C. MEDCOF **279.**

Chamalycaeus plicilabris multidentatus **subsp. n.** Yen-Ling, Kwei-dshow China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939 p. 29 pl. ii f. 33.

Cipangopaludina malleata Rve. in Chicago first record of this Japanese mollusk in this area, F. HAAS **143.**

Cyclophorus martensianus macroformis **subsp. n.** Hupei p. 20 pl. i f. 38 ; *C. szechwanensis* sp. n. Hsa-pin-tshau Szechwan p. 22 pl. i f. 47, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939.

Diplommatina schmackeriana Mirsbay Kwangtung p. 33 pl. ii f. 55 ; *D. triangulata* Mang-hao, Yürman p. 33 pl. ii f. 56 ; **spp. n.** China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939.

Dolopupina wilcoxi edna **subsp. nov.** Clarence R. New S. Wales, T. IREDALE Austl. Nat. Sydney **10** 7 1940 p. 232.

Gastroptychia bicristata **sp. n.** Patung Hupei, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939 p. 34 pl. ii f. 59.

Hedleya macleayi, shafferyi, umbilicata figs., T. IREDALE **188.**

Lagochilus hungerfordianus minor **subsp. n.** Kanton China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939 p. 16 pl. i f. 16.

Megalomastoma (*Farcimen*) *miranda* **sp. n.** from top of a mogote N. of Mercedes Valley, Miranda, Oriente, Cuba, PILSBRY Nautilus **54** 1 1940 p. 34.

Opisthoporus mathematics of shell growth, I. HAWAI **148.**

Pearsonia gredleri **sp. n.** Hainan, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939 p. 22 pl. ii f. 2.

Platyrhaphe schmackeri suinor **subsp. n.** Sam-kong-hue, Kwangtung p. 24 pl. ii f. 6 ; *P. oblitus* **sp. n.** Hainan p. 24 pl. ii f. 8, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939.

Ptychopoma omiacum **sp. n.** Bergbuci, Szechwan, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939 p. 18 pl. i f. 30.

Pupina gibbosa **sp. n.** p. 27 pl. ii f. 26 Hunan ; *P. macroformis* **sp. n.** Hunan p. 28 pl. ii f. 27, China T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939.

Sinotaia **subgen. nov.** of *Vivipara* type *Paludina quadrata* Benson—with *angulatus* Bens., F. HAAS Field Mus. Pub. Zool. Chicago **24** 1939 p. 96.

Torotaia **subgen. nov.** of *Vivipara*, type *Vivipara clemensi* Bartsch with *mainitensis* Bartsch, F. HAAS Field Mus. Pub. Zool. Chicago **24** 1939 p. 96.

Viviparus quadratus turritus **subsp. n.** Kanton p. 36 pl. 3 f. 8 ; *V. wilhelmi* **sp. n.** Kanton p. 37 pl. 3 f. 16 ; *V. annulatus* **sp. n.** Greuze von Hunan p. 39 pl. 3 f. 26, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939.

VALVATACEA.

†*Ampullaria bergeroi* **sp. n.** Pliocene Rio de la Plata, F. L. ROSELLI Bol. Soc. Amigos Cicne Nat. 'Kraglievich-Fontana Nueva Palmera **1** 2 1939 p. 63 text-fig. 16.

Pleurovalvata **subgen. nov.** of *Valvata* type *V. sincera* Say, F. HAAS Field Mus. Pub. Zool. Chicago **24** 1939 p. 101.

Valvata subgenera, J. P. E. MORRISON **300.**

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Chondropoma dentatum in Florida, J. L. BAILY **21.**

Littorina knysnaënsis figs., BROEKHUYSEN **56**; *Littorina littorea, reedis, obtusata*, H. B. MOORE **293**.

†*Littorina kozaiensis* **sp. n.** Neogene Sennan Prefecture, Japan, NOMURA & OUISI Jap. J. Geol. Geogr. Tokyo **17** 3–4 1940 p. 191 pl. xix f. 6a–b.

Melarhaphe effect of artificial desiccation, T. KURODA **224**.

†*Scrupus sinuatus* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. **69** 4 1940 p. 438 f. 24.

Tectarius cumingi luchuana effect of desiccation, T. KURODA **224**.

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Alvania etizenica p. 67 pl. i f. 8 = *etigonica* on pl. i; *A. wakasana* p. 67 pl. i f. 4 **spp. n.** off Hukui Prefecture Japan Sea, NOMURA & NÜNO Rec. oceanogr. Works Japan **12** 1 1940.—†*A. hauniensis* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 56 pl. i f. 27a, b.

Amnicola aldrichi insolita Coldwater Spring, Coldwater Missouri p. 119 pl. xiv f. B, C; *A. aldrichi antroecetes* Stimmler's Cave 2 m. S. of Bluffside St. Clair Co. Illinois, p. 120 pl. xiv f. I–K; **subspp. n.**; *A. proserpina* **sp. n.** Rice's Cave 3 m. N.E. of Goldman Jefferson Co. Missouri p. 121 pl. xiv f. L, M., L. HUBRICHT Nautilus **53** 4 1940.

Assiminea violacea macaoensis **subsp. n.** Macao p. 51 pl. iv f. 53; *A. sculpta* **sp. n.** Macao p. 51 pl. iv f. 54, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939.

Bithynella schmidtii variation, C. PIERSANTI **342**.

Bulimus siangnanensis **sp. n.** S. Hunan China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939 p. 47 pl. iv f. 31.

Bythinella grampianensis **sp. n.** Dairy Creek, near Setver-Band Falls, Grampians, Victoria, C. J. GABRIEL Mem. Nat. Mus. Melbourne **11** 1939 p. 106 pl. i f. 5.

Clappia species included in the genus, J. P. E. MORRISON **299**.

†*Dardanula laevicordata* **sp. n.** Pliocene Nukumaru New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 p. 50 pl. vii f. 33.

Digoniostoma pulchellum (Bens.) in the Selangor caves, F. F. LAIDLAW **226**.

†*Epigrus waitotarana* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 438 f. 31.

†*Estea jacosa* Wilkie's Bluff pp. 37 49 pl. f. 32; *E. rekominor* Nukumaru pp. 37 **50** pl. v f. 15; *E. missile* Mangapani pp. 37 **50** pl. v f. 11, **spp. n.** Pliocene New Zealand C.R., LAWS Trans. Roy. Soc. N.Z. **70** 1 1940.—†*E. koruahina* p. 436 f. 37; *E. sigatatura* p. 436 f. 44 **spp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940.

Fluminicola coloradoense **sp. n.** Green River, Wyoming, J. P. E. MORRISON Nautilus **53** 4 1940 p. 125.

Horatia from an artesian well at San Marcos, Texas, L. HUBRICHT **169**.

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Manawatawhia aedicula **sp. n.** Pliocene Wilkie's Bluff, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 37 50 pl. vii f. 30.

†*Micromelania apscheronica* "nom. nov." [nom. nud.] p. 456, V. P. KOLESNIKOV **218**.

†*Nozeba plana* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. **69** 4 1940 p. 439 f. 35.

Parafossarulus striatulus (Bens.) in Malay, F. F. LAIDLAW **226**.

Pomatiopsis praelonga **sp. n.** Hillside Elk River 1½ miles S. of Clay, Clay Co., West Virginia, S. T. BROOKS & G. K. MACMILLAN Nautilus **53** 3 1940 p. 96 pl. xii f. 2.

Pseudamnicola confusa in Belgium, W. ADAM **3**.

Pseudosuccinea mongolica **sp. n.** Dska-ra-tai, Da-ba-sun, Alaskan, Mongolia, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 68 pl. v f. 54.

Pyrgulopsis nevadensis Stearns in Oregon, W. J. CLINCH **79**.

Rissoa membranacea reproduction and rate of growth figs., E. SMIDT **411**.

†*Rissoina ngatutura* p. 439 f. 27; *R. koruahina* p. 439 f. 32, **spp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940.

†*Rissopsis nukumaruensis* **sp. n.** Pliocene Nukumaru New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 p. 50 pl. v f. 6.

CERITHIACEA.

†*Alabina effiae* **sp. n.** Pleistocene, Hilltop Quarry, San Pedro, California, G. WILLETT Bull. S. Calif. Acad. Sci. **38** 3 1940 p. 202 pl. liv.

†*Architectonica* ? *nautiloidea* (Pulteney) fig., L. R. Cox **86.**

Bittium urasimanum **sp. n.** off Hupui Prefecture, Japan Sea, NOMURA & NŪNO Rec. oceanogr. Works Japan **12** 1 1940 p. 68 pl. i f. 3.

Brotia squamosa **sp. n.** Kanton S. China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939 p. 59 pl. v f. 14.

†*Campanile cornucopiae* (J. Sow.) *paratum* (Desh.) *giganteum* (Lk.) *auversianum* (Orb.) figs. from the English Eocene, A. WRIGLEY.

†*Cautotriphora* "**subgen. n.**" "Genotype" [sic] *C. simulans* [and written as a genus below] **sp. n.** Pliocene, Nukumaru, New Zealand, C. R. LAWS Trans. Roy. Soc. N.Z. **70** 1 1940 pp. 38, 51 pl. vii f. 24.

†*Cerithiella cloacina* London Clay Whitton near Twickenham, A. WRIGLEY Proc. Malac. Soc. **24** 1 1940 p. 12 f. 16.

†*Cerithiopsis hauniensis* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk, Biol. Skr. **1** 1 1939 p. 70 pl. ii f. 27a, b.

Cerithium auricoma **sp. n.** Washerwoman Key, Pelican Shoals, near Key West, Florida, J. SCHWENGEL Nautilus **53** 4 1940 p. 109 pl. xii f. 8, 8a.—*C.* population Tanabewan, Japan, D. MIYADI **289.**

†*Clava* (*Ochetoclava* ?) *perduensis* Jacksonboro p. 217 pl. xxvii f. 13; *C.* (*O.* ?) *watsonensis* Yellow R. Watson Covington Co. Ala. p. 217 pl. xxvii f. 18 **spp. n.** Lower Chickasawhay Marl [Oligocene] U.S.A., W. C. MANSFIELD J. Paleont. Menasha Wis. **14** 3 1940.

†*Mathilda sororcula* **sp. n.** London Clay Highgate, A. WRIGLEY Proc. Malac. Soc. **24** 1 1940 p. 10 f. 17.

Mathildia (*Fimbriatella*) *quadricincta* p. 68 pl. ii f. 19a, b; *M.* (*F.*) *carinata* p. 68 pl. ii f. 20a, b; *M. lemchei* p. 68 pl. ii f. 16a–b **spp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939.

Melanopsis tuberculata **sp. n.** See voce Ta-li-fu Yünnan, China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 58 pl. v f. 10.—*M.* Valley of Oued Rirh, N. Africa, P. PALLARY **328.**

†*Notosinister kaawaensis* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 441 f. 30.—†*N.* (*Cautotriphora*) **subgen. nov.** q.v., C. R. LAWS.

†*Newtoniella monbergi* p. 71 pl. ii f. 21a–c, 22; *N. similis* p. 71 pl. ii f. 28, 29 **spp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939.

†*Omphalotrochus* occurrences, J. B. KNIGHT **211.**

†*Orthochetus elongatus* **sp. n.** London Clay Whetstone, A. WRIGLEY Proc. Malac. Soc. **24** 1 1940 p. 11 f. 13–15.

Pleuroceridae distribution in Tennessee, C. GOODRICH **132.**—P. of the Ohio R. drainage, C. GOODRICH **137.**

†*Potamides mazzae* **sp. n.** Entrerria formation [Mioc. ?] Victoria (E. Rios) Argentina, R. CHAMINAUD Nov. Reunión Soc. Argent. Patol. Reg. **2** 1937 p. 917 f. 1–3.

†*Procerithium* (*Xystrella*) *bradleyi*, **sp. n.** Pebble Sand, Swindon, W. S. ARKELL Proc. Geol. Ass. London **51** 4 1940 p. 392 text-fig. 54.

Rhinocoryne pacifica at Corinto Nicaragua a new locality, F. HAAS **143.**

Semisulcospira trivolvis **sp. n.** No-do-hwa Hainan p. 53 pl. iv f. 63; *S. paludiformis* **sp. n.** Lu-ho-wan Hainan p. 55 pl. iv f. 73, China, T. C. YEN Abh. Senckenb. Naturf. Ges. **444** 1939.

Senckenbergia **gen. nov.** Thiaridae type *Melania pleuroceroides* Bavay & Dautzenberg 1910, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 55 pl. iv f. 74.

†*Siragimelania* **subgen. nov.** of *Thiara* p. 222 type *T.* (*S.*) *tateiwai* **sp. n.** Middle Cretaceous pp. 222, 224 pl. i text-figs. 2–16; *T.* (*S.*) *t. acuticostata* **subsp. n.** p. 226 pl. ii Cretaceous South Tyosen Japan, SUZUKI Jap. J. Geol. Geogr. Trans. & Abs. **17** 3–4 1940.

†*Solarium* (*Solariaxis*) *Koeneni* **nom. nov.**=*S. bisulcatum* v. Koenen 1885 non Orb. Paleocene Copenhagen RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 53.

Triphora palmeri **sp. n.** off Taboga Island, STRONG & HERTLEIN Reps. Allan Hancock Pacific Exped. 1932–38 **2** 12 1939 p. 209 pl. xx f. 1.

Turritella (*Haustator*) *tibana* sp. n. off Tiba Prefecture Japan, S. NOMURA Rec. oceanogr. Works Japan **12** 1 1940 p. 105 pl. i f. 12.—*T. parallela* Anderson & Hanna should be read for "*T. whiteavesi* Anderson" p. 401 Upper Cret. Moll. S. Calif. J. Paleont. **11** 5 pp. 379–402; W. P. POPENOE J. Paleont. Menasha Wis. **14** 2 1940 p. 183.

†*Turritella mozambicensis* Lower Miocene Tuhacuaia Mozambique, L. R. Cox Bol. Serv. Ind. Min. Geol. Col. Mozambique **3** 1939 pp. 25, 69 pl. i f. 1 —†*T. monroensis* from N. of Perdue Hill, Ala. p. 219 pl. xxvii f. 59; *T. purduensis* p. 220 pl. xxvii f. 50, 54, 55 **spp. n.** Lower Chickasawhay Marl [Oligocene] U.S.A., W. C. MANSFIELD J. Paleont. Menasha Wis. **14** 3 1940.—†*T. erosa*, OLIVEIRA **319.**—†*T. cortezi* Bowles figs., H. B. STENZEL **416.**

†*Zaclys spiculum* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 440 f. 21.

Zeacolpus propagodus Pliocene Wilkies Bluff, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 38, 52 pl. vii f. 25

†*Zebittium tenuicordatum* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. **69** 4 1940 p. 440 f. 42.

CALYPTRAEACEA.

†*Cerithioderma cavatocarinata* off Otago Heads 72 fms. New Zealand pp. 38, 52 pl.xxxviii f. 19; *C.* (*Miplioderma*) *mangawera* Mangapani New Zealand pp. 38, 53 pl. f. 17, **spp. n.** Pliocene N.Z., C. R. LAWS Trans. Roy. Soc. N.Z. **70** 1 1940.

†*Miplioderma* **subgen. nov.** of *Cerithioderma* Conrad, "genotype" *Miplioderma mangawera* **sp. n.** Pliocene N. Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 p. 53 pl. vi f. 17.

†*Orthonychia bushbergensis* **sp. n.** Bushberg Sandstone, Montgomery Co. Missouri, Mississippian (Carboniferous) U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938 p. 179 pl. xx f. 31.

NATICACEA.

Éunaticina oldroydi Dall containing Ca. deposits, W. M. INGRAM **176.**

†*Hahazimania* **gen. nov.** Naticidae type *H. hahazimensis* **sp. n.** Sea-cliff Nisiura, Oki-mura, Haha-zima, Ogasawara Islands, Eocene, YABE & HATAI Japan J. Geol. Geog. **16** 304 1939 pp. 209–210 pl. xii f. 1–4.

†*Polynices heros*, TREFETHEN & HARRIS **443.**

Sigatica semisulcata holograpta **subsp. n.** Boynton Beach, Palm Beach Co. Florida, T. L. MCGINTY Nautilus **53** 4 1940 p. 110, pl. xii f. 10–11.

†*Trachydomia tuberculato-lineata* **sp. n.** Shapsgam-Sal Gekyagar Tso Karakorum, H. RENZ Wiss. Ergeb. Niederl. Exped. Karakorum Leiden **3** 2 1940 p. 237 pl. xi f. 7a–c, 8a, b, 9a–c.

LAMELLARIACEA.

Lamellaria cochinella **sp. n.** dredged off Sanibel Island, Florida, L. M. PERRY Nautilus **53** 3 1940 p. 80.

CYPRAEACEA.

Archicypraea trinidadensis degenerata **subsp. n.** pp. 4, 17 f. 13 Trinidad Eocene; *A. regalis* **sp. n.** pp. 4, 17 f. 14–15 S. Trinidad Paleocene; *A. oscyphyga* **sp. n.** pp. 4, 15 f. 10 Trinidad Paleocene, F. A. SCHILDER Abh. Schweiz. palaeont. Ges. **62** 1939.

†*Cyphoma puana bowdenensis* **subsp. n.** Jamaica, upper Miocene, F. A. SCHILDER Abh. Schweiz palaeont. Ges. **62** 1939 p. 14 f. 9.

†*Cypraea costaricaensis* **sp. n.** p. 504 f. 1, 2, second bed from Top of Moen Hill, Costa Rica, Pliocene; *C. cinerea limonensis* **var. n.** p. 504 f. 3, 4, on outskirts of Limon, Costa Rica, Pliocene, W. M. INGRAM J. Paleont. Menasha. Wis. **14** 5 1940.

†*Cypraedia vistabellensis* 4 **sp. n.** p. 11 f. 4; *C. kugleri* pp. 4, 12 f. 5, San Fernando, Jacksonian Eocene, F. A. SCHILDER Abh. Schweiz. palaeont. Ges. **62** 1939.

Cypraeidae on the coast of Sydney, C. F. LACERON **234**.—Cypraeidae, G. A. WATERHOUSE **456**.—Cypraeidae from Atafa Island, W. M. INGRAM **178**.

†*Cypraeorbis perplexa* **sp. n.** Miocene Trinidad, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 4, 22 f. 22.—†*C. venezuelana* **sp. n.** Venezuela Oligocene, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 5, 22 f. 21.

†*Erosa* (*Ravitrona*) *aliena* **sp. n.** Pliocene Trinidad, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 5, 20 f. 20.

†*Gisortia clarki* **sp. n.** Capay stage, plajas formation [Eocene], lower zone, Seine Valley, Ventura County, California, W. M. INGRAM J. Wash. Acad. Sci. **30** 9 1940 p. 376 f. 1.

†*Jousseaumea joossi* **sp. n.** Miocene Trinidad, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 4, 23 f. 23.

†*Luria* (*Basilitrona*) *sanctisebastiani adivinanzensis* **subsp. n.** Miocene Trinidad, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 4, 26 f. 29.—†*L.* (*Basilitrona*) *moritura* pp. 6, 27 f. 30 **sp. n.**; *L.* (*L.*) *cinerea rutschi* pp. 6, 28 f. 31 **subsp. n.**; Pliocene Haiti, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939.

†*Propustularia vistabellensis* **sp. n.** Jacksonian, Eocene Trinidad, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 4, 19 f. 19.

†*Pustularia* (*Pustularia*) *mejasensis* **sp. n.** Oligocene Trinidad, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 4, 18 f. 16.—†*P.* (*Pustularia*) *americana* **sp. n.** Miocene, Cuba, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 6, 18 f. 17.—†*P.* (*Pustularia*) *caribaea* **sp. n.** Miocene Carriacoa, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 6, 19 f. 18.

†*Pusula* (*Pusula*) *guppyi* **sp. n.** p. 10 f. 1 Trinidad Miocene; *P.* (*P.*) *radiaces orientales* Pliocene, Trinidad **subsp. n.** p. 11 f. 1, F. A. SCHILDER Abh. Schweiz. palaeont. Ges. **62** 1939.

†*Siphocypraea angustirima hyaena* **subsp. n.** Oligocene Venezuela pp. 5, 23 f. 24; *S. quagga* **sp. n.** Miocene Venezuela pp. 5, 25 f. 28, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939.

†*Sphaerocypraea wegeneri*, **sp. n.** lower Miocene Venezuela, F. A. SCHILDER Abh. schweiz. palaeont. Ges. **62** 1939 pp. 5 12 f. 7.—†*S. wegeneri* **sp. n.** Venezuela Miocene pp. 4, 12, F. A. SCHILDER Abh. Schweiz. palaeont. Ges. **62** 1939 f. 6–8.

TONNACEA.

†*Cassidaria zenonis* **sp. n.** Pliocene Cyprus, F. R. C. REED Ann. Mag. nat. Hist. (11) **6** 1940 p. 294 pl. ix f. 1–16.

†*Cassis flintensis* **sp. n.** Fleet R. near Bainbridge Ga. Lower Chickasawhay Marl [Oligocene] U.S.A. J. Paleont. Menasha, Wis., W. C. MANSFIELD J. Paleont. Menasha ?, Wis. **14** 3 1940 p. 214 pl. xxvii f. 47, 48, 49.

†*Gymatium* err. pro *Cymatium*, L. R. Cox Bol. Serv. Ind. Min. Geol. Col. Moçambique **3** 1939 p. 89.

†*Galeodea ogawarensis* **sp. n.** Neogene Sennan Prefecture Japan, NOMURA & OUISI Jap. J. Geol. Geogr. Tokyo **17** 3/4 1940 p. 188 pl. xix f. 5a, b.

†*Tritonium* (*Sassia*) *bjerringi* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 74 pl. iii f. 1a, b.—*T.* (*S.*) *manglisi* **sp. n.** Pliocene Cyprus, F. R. C. REED Ann. Mag. nat. Hist. (11) **6** 1940 p. 295 pl. ix f. 2, 2a.

PTENOGLOSSA.

EPITONIACEA.

†*Aclisina striatula* Kon. *aequicostata* **var. nov.** Carboniferous Kizel district Russia, GORSKY & TIRNOFEEVA Trans. Central Geol. & Prosp. Inst. U.S.S.R. **111** 1939 pp. 103, 135 pl. vii f. 15, 16.

†*Acrilla gryi* p. 59 pl. ii f. 3a–c, 7; *A. fenestrata* p. 60 pl. ii, f. 8a–c; *A. brünnichi* p. 60 pl. ii f.9a–c, 10 **spp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939.—*A. cymaea* **sp. n.** London Clay Potters Bar, A. WRIGLEY Proc. Malac. Soc. **24** 1 1940 p. 9 f. 9.

Epitonium (*Asperoscala*) *slevini* **sp. n.** off Taboga Island p. 193 pl. xviii f. 9; *E.* (*Nitidiscala*) *wurtsbaughi* **sp. n.** Bahia Honda, Panama p. 193 pl. xviii

f. 14; *E.* (*K.*) *gissleri* **sp. n.** Taboga Is. p. 194 pl. xviii f. 8, STRONG & HERTLEIN Reps. Allan Hancock Pacific Exped. 1932–38 **2** 12 1939.

†*Epitonium* (*Boreoscala*) *yabei echigonum*, K. KANCHARA **201**.

†*Scalina waynensis* **sp. n.** [Oligocene] lower Chickasawhay Marl, Taylor Mill Creek 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 214 pl. xxvii f. 34.

†*Tenuiscala* (*Cerithiscala*) *poulseni* p. 59 pl. ii f. 2a–c; *T.* (*C.*) *hauniensis* p. 59 pl. ii f. 6a, b, **spp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939.

PYRAMIDELLACEA.

†*Aclis* (*Graphis*) *densestriata* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 62 pl. ii f. 13a–c.

†*Agatha otaioensis* **sp. n.** Blue Cliffs, Otaio R, S. Canterbury (Hutchinsonian) [Upper Oligocene] New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 2 1940 p. 152 p. xiii fig. 2.

†*Bartrumella* **gen. nov.** p. 445 [Pyramidellidae] type *B. kaawaensis* **sp. n.** Kaawa Creek p. 446 f. 45 Waitotaran [Miocene] Kaawa Creek, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940.

†*Chemnitzia quadruplator* p. 443 f. 39; *C. ngatutura* p. 444 f. 19, 43 **spp. nn.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. **69** 4 1940.

†*Eulima corneti* **sp. n.** Cretaceous Hainaut, R. MARLIÈRE Min. Mus. Hist. nat. Belg. **89** 1939 p. 123 pl. vii f. 5a, b.

†*Eulimella kaawaensis* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, C. N. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 445 f. 18.

†*Evelynella* **gen. nov.** [Pyramidellidae] type *E. venustas* **sp. n.** North Otago, Awamoan horizons [Lower Miocene] Target Gully, Oamaru p. 153 pl. xiv f. 19; *E. sinemacula* Chatton, near Gore, Southland (Duntroonian) p. 154 pl. xiv f. 16; *E. marginalis* Kaawa Creek Waitotaran Lower Miocene p. 154 pl. xiii f. 9; *E. doliella* Clifden Southland (Hutchinsonian) [Upper Oligocene] p. 155 pl. xiv f. 13; *E. kaawa* Kaawa Creek (Waitotaran) p. 155 pl. xiv f. 12, **spp. n.** New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 2 1940.

†*Finlayola rodata* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 444 f. 40.

†*Gumina minor* **sp. n.** Pliocene, Mangapani, New Zealand "also occurs recent," C. R. LAWS Trans. Roy. Soc. N.Z. **70** 1 1940 pp. 38, 53 pl. vi f. 16.

†*Obex* **gen. nov.** [Pyramidellidae] type *Odostomia denselirata* Suter p. 155 pl. xiv f. 17; *O. granum* **sp. n.** Kaawa Creek (Waitotaran) Lower Pliocene p. 156 pl. xiv f. 18, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 2 1940.

Odostomia (*Chrysallida*) *swetti* off Tabogu Island p. 206 pl. xviii f. 11; *O.* (*Miralda*) *azteca* Bahia Honda p. 207 pl. xviii f. 10; *O.* (*Evalea* ?) *isthmica* Bahia Honda p. 208 pl. xix f. 12, **spp. n.** Panama, STRONG & HERTLEIN Reps. Allan Hancock Pacific Exped. 1932–38 **2** 12 1939.—*O. babylonica* **sp. n.** Madras, WINCKWORTH Proc. Malac. Soc. **24** 2 1940 p. 41 fig. 2.

†*Planpyrgiscus disparilis* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 444 f. 22.

Pyramidella (*Pyramidella*) *hancocki* **sp. n.** of Taboga Island, STRONG & HERTLEIN Reps. Allan Hancock Pacific Exped. 1932–38 **2** 12 1939 p. 195 pl. xviii f. 12.

†*Scalenostoma southlandica* Clifden Southland (Hutchinsonian) [Upper Oligocene] New Zealand **sp. n.**, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 2 1940 p. 158 pl. xiii f. 5.

†*Sinuatodostomia neozelanica* **sp. n.** Kaawa Creek beds (Waitotaran) [Lower Pliocene] New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 2 1940 p. 159 pl. xiii f. 8.

†*Striodostomia* **gen. nov.** [Pyramidellidae] type *S. orewa* **sp. n.** Orewa Beach, 20 m. N. of Auckland p. 156 pl. xiv f. 11; *S. waikaia* Waikaia (Ototaran) p. 157 pl. xiv f. 15; *S. kaawa* Kaawa Creek (Waitotaran) p. 157 pl. xiv f. 14; *S. locuples* Napier-

Wairoa road, near Devil's Elbow p. 158 pl. xiii f. 10, **spp. n.** New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 2 1940.

Strombiformis healeyi **sp. n.** Bahia Honda, Panama, STRONG & HERTLEIN Reps. Allan Hancock Pacific Exped. 1932–38 **2** 12 1939 p. 195 pl. xviii f. 7.

†*Terelimella kaawa* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 445 f. 33.

Turbonilla (*Strioturbonilla*) *cowlesi* Bahia Honda p. 196 pl. xix f. 3; *T.* (*S.*) *mcguiree* off Taboga Is. p. 197 pl. xix f. 1; *T.* (*S.*) *haleyi* off Taboga Is. p. 198 pl. xix f. 2; *T.* (*Pyrgiscus*) *grathi* off Taboga Is. p. 199 pl. xix f. 9; *T.* (*P.*) *stonei* of Taboga Is. p. 200 pl. xix f. 5; *T.* (*P.*) *crickmayi* Bahia Honda p. 200 p. xix f. 10; *T.* (*P.*) *sealei* Bahia Honda p. 201 pl. xix, f. 6; *T.* (*P.*) *amandi* Bahia Honda p. 202 pl. xix f. 7; *T.* (*P.*) *bartonella* Bahia Honda p. 203 pl. xix f. 8; *T.* (*Careliopsis*) *israelskyi* Bahia Honda p. 204 pl. xix f. 13; *T.* (*Cingulina*) *academica* Bahia Honda p. 205 pl. xix f. 14, **spp. n.** Panama, STRONG & HERTLEIN Reps. Allan Hancock Pacific Exped. 1932–38 **2** 12 1939.—*T. crichtoni* **sp. n.** Madras, WINCKWORTH Proc. Malac. Soc. **24** 2 1940 p. 42 fig. 3.

†*Turbonilla asperedolata* p. 442 f. 23; *T. praegravata* p. 443 f. 34 **spp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940.—†*T. subterranea* **sp. n.** London Clay Highgate, A. WRIGLEY Proc. Malac. Soc. **24** 1 1940 p. 7 f. 7, 8.

STENOGLOSSA.

(*a*) RHACHIGLOSSA.

MURICACEA.

Bedeva pensa **sp. n.** Lord Howe Is. IREDALE Austl. Zoologist **9** 4 1940 p. 434 pl. xxxii f. 4.

Murex wakasanus **sp. n.** off Hukui Prefecture, Japan Sea, NOMURA & NÜNO Rec. oceanogr. Works Japan **12** 1 1940 p. 71 pl. i f. 10.—*M. trunculus*, CARDOTT & JULLIEN **684.**

†*Murex nanus* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 78 pl. iii f. 7a, b.

Muricidae, Australian, J. ALLAN **6, 7.**

†*Muricidea mansfieldi* **sp. n.** Caloosahatchee marl (Pliocene), Clewiston, Hendey Co. Florida, T. L. MCGINTY Nautilus **53** 3 1940 p. 83 pl. x f. 5, 5a.

Ocinebra erinacea replaced by *Urosalpinx cinerea* in Oyster beds, H. A. COLE **81.**

Pseudomurex cariniferus Sow. fig., P. LAURENT **236.**

Thais dubia feeding on *Clethamalus dentatus* and *Patella granularis* figs., G. J. BROEKHUYSEN **56**

†*Tritonalia graceae* **sp. n.** Pliocene Belle Glade, Palm Beach Co., Florida, T. L. MCGINTY Nautilus **53** 3 1940 p. **84** pl. x f. 2, 2a.

Urosalpinx cinerea replacing *Ocinebra erinacea* on Oyster beds, H. A. COLE **81.**

BUCCINACEA.

†*Aeneator contractus* **sp. n.** Pliocene, Hawera, New Zealand, LAWS Trans. Roy. Soc. N.Z. **70** 1 1940 pp. 39, 54 pl. vii f. 27, 28.

†*Anachis chariessa* **sp. n.** Caloosahatchee marl (Pliocene), Clewiston, Hendey Co., Florida, T. L. MCGINTY Nautilus **53** 3 1940 p. 83 pl. x f. 4, 4a.

†*Ancistrolepis tricordatus* **sp. n.** Neogene Sennan District, Miyagi Prefecture, Japan, NOMURA & ONISI Jap. J. Geol. Geogr. Trans. & Abs. **17** 3/4 1940 p. 185 pl. xvii f. 1.

Cantharus bentsonae **nom. nov.** for *C. cowlitzensis* Turner June 1938 Geol. Soc. Amer. spec. pap. 10 p. 79 pl. xvi f. 22, non Clark May 1938 Geol. Soc. Amer. Bull. 49 p. 714 pl. iv f. 7–10, F. E. TURNER J. Paleont. Menasha, Wis. **14** 5 1940 p. 518.

†*Clavella hauniensis* **sp. n.** Paleocene Copenhagen RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 80 pl. iii f. 8.

Columbella fischeri Herv. and *C. perplexa* Schpn., JUTTING **199.**

Colus (*Aulacofusus*) *mitrellaformis* **sp. n.** off Tiba Prefecture Japan, S. NOMURA Rec. oceanogr. Works Japan **12** 1 1940 p. 110 pl. i f. 1a, b.

Cominista norfolkensis **sp. n.** Norfolk Is., IREDALE Austl. Zoologist **9** 4 1940 p. 435 pl. xxxii f. 12.

†*Dissita* **sec. nov.** Nassidae type *Buccinum dissitam* Dub, V. Kolesnikov C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 702.

†*Duplicatula* **sect. nov.** Nassidae type *Buccinum duplicatum-verneuillii* Sinz Miocene, V. Kolesnikov C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 702.

Enzinopsis **gen. nov.** Pusiostomatidae type *gannita* Hedley p. 434; *E. resta* **sp. n.** Lord Howe Island p. 434 pl. xxxii f. 11, Iredale Austl. Zoologist **9** 4 1940.

Latirus cymatias **sp. n.** off Palm Beach in about 12 fms., Florida, J. Schwengel Nautilus **53** 4 1940 p. 110 pl. xii f. 6, 7.

†*Latirus jucundus* **sp. n.** Pliocene ? Belle Glade, Palm Beach Co. Florida, T. L. McGinty Nautilus **53** 3 1940 p. 83 pl. x f. 3.—†*L. taylorensis* **sp. n.** [Oligocene] lower Chickasawhay Marl Taylor Mill Creek 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. Mansfield J. Paleont. Menasha, Wis. **14** 3 1940 p. 208 pl. xxvii f. 1, 2, 9.

†*Metula taylorensis* **sp. n.** [Oligocene] lower Chickasawhay Marl Taylor Mill Creek 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. Mansfield J. Paleont. Menasha, Wis. **14** 3 1940 p. 212 pl. xxvii f. 32.

Mitrella anachisoides **sp. n.** off Hupui Prefecture, Japan Sea, Nomura & Nüno Rec. oceanogr. Works Japan **12** 1 1940 p. 71 pl. i f. 7.

Nassa reticulata radula figs method of use, E. Kessel **206**.

Nassarius Marrat's species, J. R. le B. Tomlin **439**.

†*Nassarius* (*Hinia*) *dominulus*, K. Kanehara **201**.

†*Neptunea oomurai* **sp. n.** Miocene Tesio Province, Japan, Y. Otuka Japan J. Geol. Geogr. **17** 1–2 1940 pp. 91, 98 f. 5, 6.

†*Omnivaga* **sect. nov.** Nassidae type *Buccinum omnivagum* Koles Miocene. V. Kolesnikov C.R. Acad. Sci. Moscow N.S. **25** 8 1939 p. 702.

†*Parvisipho* (*Andonia*) *crispatus* **sp. n.** Paleocene Copenhagen, Ravn K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 80 pl. iii f. 12a, b, 13.

Phos urasimensis **sp. n.** off Hukui Prefecture, Japan Sea, Nomura & Nüno Rec. oceanogr. Works Japan **12** 1 1940 p. 73 pl. i f. 11.

†*Siphonalia ravni* **sp. n.** Danian Sweden Aunetorp Korablenkalk, R. Hägg Geol. Fören. Stockholm Föch. **62** 1 1940 p. 21 text-fig. 1.— †*S. hauniensis* **sp. n.** Paleocene Copenhagen, Ravn K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 77 pl. iii f. 2a, b.

†*Tritiaria waynensis* **sp. n.** [Oligocene] lower Chickasawhay Marl Taylor Mill Creek 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. Mansfield J. Paleont. Menasha, Wis. **24** 3 1940 p. 211 pl. xxvii f. 12.

†*Tritonidea rosenkrantzi* **sp. n.** Paleocene Copenhagen, Ravn K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 76 pl. iii f. 11a, b.

†*Zafra impedita* **sp. n.** Pliocene Mangapani New Zealand, C. R. Laws Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 39, 55 pl. v, f. 4.

VOLUTACEA.

Admete hukuiensis **sp. n.** off Hukui Prefecture, Japan Sea, Nomura & Nüno Rec. oceanogr. Works Japan **12** 1 1940 p. 74 pl.i f. 3.

†*Ancilla atrebatum* **sp. n.** London Clay, Aldershot, A. Wrigley Proc. Malac. Soc. **24** 1 1940 p. 14.

†*Cancellaria* (*Bonellitia*) *waynensis* **sp. n.** lower Chickasawhay Marl [Oligocene] Taylor Mill Creek, 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. Mansfield J. Paleont. Menasha, Wis. **24** 3 1940 p. 207 pl. xxvii f. 19.— †*C. muratana* **sp. n.** Neogene Sennan District, Miyagi Prefecture, Japan, Nomura & Onisi Jap. J. Geol. Geogr. Trans. & Abs. **17** 3/4 1940 p. 185 pl. xvii f. 14.

Lyria howensis **sp. n.** Lord Howe Island, Iredale Austl. Zoologist **9** 4 1940 p. 435 pl. xxxii f. 3.

†*Merica haweraensis* **sp. n.** Pliocene Hawera, New Zealand, C. R. Laws Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 39, 54 pl. vii f. 26.

Mitra ? *roemeri* Reuss. nom. nov. 1846 figs., R. Marlière **272**.

Oliva sayana Ravenel unusual form from Sanibel-Captiva, Florida, fig., L. M. Perry **341**.

†*Pseudoliva koeneni* **nom. nov.** for *P. pusilla* Koenen 1885 non Beyrich p. 75 *P.* (*Fusopsis*) *canalifera* **sp. n.** p. 76 pl. iii f. 4a, b, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939.

†*Sveltia multistriata* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 87 pl. iii f. 23a, b, 24a, b.

Turricula (*Fusimitra*) *danica* "**nom. nov.**" [emendation] for *Mitra semilaevis* Koenen 1885=*T.* (*F.*) *danensis* Cossmann, RAVN K. danske Vidensk. selsk. Biol. Skr. **1** 1 1939 p. 82.

†*Vasum floridanum* **sp. n.** Caloosahatchee Marl (Pliocene) Ortonahocks Glades Co. Florida, T. L. MCGINTY Nautilus **53** 3 1940 p. 82 pl. x f. 1.

Voluta (*Fulgoraria*) *mentiens* Tosa, Japan pl. ii f. 1; *V.* (*F.*) *delicata* Tosa, Japan pl. ii f. 2; **spp. n.** FULTON Proc. Malac. Soc. **24** 1 1940 p. 31.

†*Zeadmete teres* Pliocene Nukumaru New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 p. 54 pl. vi f. 21.

STENOGLOSSA.

(*b*) TOXOGLOSSA.

CONACEA.

†*Aptyxiella portlandica* (J. de C. Sow.) (*Terebra* p.) fig., W. S. ARKELL **16.**

†*Austrotoma prolixa* **sp. n.** Pliocene, Hawera, New Zealand, C. R. LAWS Trans. Roy. Soc. N.Z. **70** 1 1940 pp. 39, 55 pl. v f. 9.

†*Bathytoma hawera* **sp. n.** Pliocene, Hawera, New Zealand, C. R. LAWS Trans. Roy. Soc. N.Z. **70** 1 1940 pp. 39, 56 pl. vii f. 23.

†*Clavatula dainichiensis* Yokayama, K. KANEHARA **201.**

Conus geographus a fatal bite (ex Venus 1939 **9** 165), H. YASIRO **482.**

Crassispira tampaensis bartschi **subsp. n.** 4–7 fms. off Sanibel and Captiva Islands, Lee County Florida, L. M. PERRY Nautilus **53** 3 1940 p. 81.

Drillia valid for type *D. umbilicata* Gray 1838 which is not a species of *Clavatula*, J. MAKIYAMA **269.**

†*Fusiturricula waynesboroensis* **sp. n.** [Oligocene] lower Chickasawhay Marl Taylor Mill Creek 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 204 pl. xxvii f. 4.

Lienardia togetoges f. 2a, b; *L. vadososinuata* f. 9a, b **spp. n.** off Hakui Prefecture, Japan Sea, NOMURA & NÜNO Rec. oceanogr. Works Japan **12** 1 1940 p. 76 pl. i.—*L. cosmia* p. 42 fig. 4; *L. gravelyi* p. 43 fig. 5; **spp. n.** Madras, WINCKWORTH Proc. Malac. Soc. **24** 2 1940.

Lora kazusensis p. 114 pl. i f. 9a, b; *L. suganumana* p. 114 pl. i f. 3a, b **spp. n.** off Tiba Prefecture, Japan, S. NOMURA Rec. Oceanogr. Works Japan **12** 1 1940.—*L.* ? *gentatuana* **sp. n.** off Hukui Prefecture, Japan Sea, NOMURA & NÜNO Rec. oceanogr. Works Japan **12** 1 1940 p. 76 pl. i f. 1a, b.

Mangelia subgracilenta **sp. n.** off Tiba Prefecture, Japan, S. NOMURA Rec. oceanogr. Works Japan **12** 1 1940 p. 113 pl. i f. 14a, b.—*M. hukuiensis* **sp. n.** off Hukui Prefecture, Japan Sea, NOMURA & NÜNO Rec. oceanogr. Works Japan **12** 1 1940 p. 75 pl. i f. 6.

Paradrillia **subgen. nov.** of *Clavatula* type *Drillia dainichiensis* Yokogama 1923.—Trans. Paleont. Soc. Japan in J. Geol. Soc. Jap. **47** 558 1940 pp. 133, 134.

†*Pleuroliria* ? *waynensis* **sp. n.** [Oligocene] lower Chickasawhay Marl Mississippi, W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 204 pl. xxvii f. 21.

†*Pleurotoma* (*Hemipleurotoma*) *greyi* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 88 pl. iii f. 25a, b, 26.

†*Scobinella taylorensis* **sp. n.** lower Chickasawhay Marl [Oligocene] Taylor Mill Creek 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 206 pl. xxvii f. 14, 31.

†*Suavodrillia declivis* Marts. K. KANCHARA **201.**

†*Surcula rosenkrantzi* p. 91 pl. iv f. 8a, b; *S.* (*Cochlespira*) *böggildi* p. 93 pl. iv f. 9a, b, 14; **spp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939.

†*Surculites rara* **sp. n.** Neogene Sennan District, Miyagi Prefecture, Japan, NOMURA & ONISI Jap. J. Geol. Geogr. Trans. & Abs. **17** 3/4 1940 p. 185 pl. xvii f. 8.

†*Terebra* (*Strioterebrum*) *waynesboroensis* **sp. n.** lower Chickasawhay Marl [Oligocene] Taylor Mill Creek 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 203 pl. xxvii f. 23.

Tomopleura Casey 1904 *Pleurotoma nivea* is type, and takes place of *Asthenotoma* of Japan, J. MAKIYAMA **269**.

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†*Zeacuminia planitas* **sp. n.** Pliocene Hawera, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 39, 56 pl. vii f. 31.

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†*Actaeon pusillus* **sp. n.** Paleocene Copenhagen, J. P. L. RAVN K. danske. Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 95 pl. iv f. 15a, b.

†*Actaeonina briarti* **sp. n.** Cretaceous Hainaut, R. MARLIÈRE Mém. Mus. Hist. nat. Belg. **89** 1939 p. 146, pl. viii f. 8a–e.

Bullacea of Australia, J. ALLAN **8**.

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†*Cylichnina segnis* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 446 f. 41.

Hydatina vesicaria Solander 1786 Florida, P. BARTSCH **32**.

†*Ringicula corneti* **sp. n.** Cretaceous Hainaut, R. MARLIÈRE Mém. Mus. Hist. nat. Belg. **89** 1939 p. 154, pl. viii f. 15a–d.

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†*Conularia tenuicostata* **sp. n.** Chouteau Limestone, Browns, Missouri, Mississippian (Carboniferous) U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938 p. 111 pl. xiv f. 5, 6.—†*C. esclovensis* **sp. n.** North area, Great Slave Laké, N.W. Territories Ordovician. G. S. HUME Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 64 pl. xiii f. 6a, b.

Creseis acicula C. virgula conica, figs. DAKIN & COLEFAX **89**.

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†*Metaconularia* ? *dubia* Val Tetrean W. of Hull, Quebec, Ottawa, Limestone, p. 107 pl. iii f. 1 2; *M. calderi* Old Quarry Prince Edward Co. Ontario Upper Cobourg beds (Trenton) p. 110 pl. iii f. 3–5; *M. gibraltarensis* (ex Way M.S.) Manitoulin member of cataract, (Basal Silurian) Gibraltar Cliff, Manitoulin Island, Ontario p. 111 pl. ii f. 2; *M. nuda* Gasport New York, p. 113 pl. ii f. 5, 6; **spp. n.**, G. W. SINCLAIR Trans. roy. Soc. Canada (3) **34** 4 1940.

†*Paraconularia* **subgen. nov.** of *Conularia*, type *Conularia inaequicostata* de Koninck 1883, Carboniferous Belgium, G. W. SINCLAIR Canad. Field Nat. **54** 5 1940 p. 73.

†*Pseudoconularia* **n. g.** = *Longitudinales* Holm, group of *C*[*onularia*] *grandissima* Bouč. 1928 Tupe *P. grandissima* (Barr. 1867), B. BOUČEK Handb. Paläozool. **2A** 5 1939 p. A. 121.

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Opara **subgen. nov.** of *Hiona*, type *Helicopsis orbis* Beck from Mount Perahu H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940 pp. 163, 164 pl. xlii f. 4–6; pl. xxxiii f. 9; pl. xxvi f. 1–3.

Oxychilus pulchro-striatum **sp. nov.** Duquesne Bluff, Pittsburgh, Pa., G. K. MacMillan Amer. Midl. Nat. Notre Dame **23** 3 1940 p. 731 text-figs. 2–4.

Philonesia (*Pitcairnia*) *pitcairnensis* Tuamotu Pitcairn Id. p. 109 pl. xviii f. 10, 11; pl. xxii f. 1, 2; *P.* (*Pitcairnia*) *mangarevae* Tuamotu Mangareva Islet pp. 110, 111 pl. xviii f. 13–15; pl. xxii f. 5, 6; *P.* (*Kipua* ?) *arenofunus* Hawaiian islands; Kauai (East Koloa) pp. 113, 114 pl. xxvii f. 1, 2; *P.* ? (*Waihoua*) *kaliella* Hawaii (North Kona) p. 114 pl. xxxvi f. 5; *P.* (*Philonesia* ?) *Kualii* Oahu (Koolau Range, Honolulu) p. 115 pl. xxvii f. 4, 5; *P.* (*P.*) *striata* Oahu (Koolan Range, Waialua) pp. 115, 119 pl. xxvii f. 14, 15; *P.* (*P.*) *mokuleiae* Oahu (Waianae Mts.) pp. 116, 121 pl. xxxvi f. 2, 3; *P.* (*P.*) *fallax* Oahu (Koolau Range, Honolulu) pp. 116, 122 pl. xxxix f. 1, 2; pl. xxii f. 13, 14; *P.* (*P.* ?) *waimanaloi* Oahu (Koolauloa) pp. 116, 123; *P.* (*P.*) *kauaiensis* Kauai (Waimea) pp. 116, 123 pl. xxxix f. 15; pl. xxix f. 7, 8; pl. xxiii f. 1, 2; *P.* (*P.*) *decepta* West Maui (Wailuka) pp. 116, 126 pl. xxix f. 9, 10; pl. xxiii f. 6, 7; *P.* (*P.*) *maunalei* Lanai (North-East side) pp. 116, 126 pl. xxxix f. 5, 6; pl. xxiii f. 5; *P.* (*P.*) *konahuanui* Oahu (Koolau Range, Honolulu) pp. 128, 130 pl. xxx f. 3, 4; *P.* (*P.*) *ascendens* Oahu (Koolau Range, Honolulu) = ? *Helix cryptoportica* Gould 1846 Pr. Boston Soc. N.H. 2; 171 [20] "possibly in part," pp. 128, 130 pl. xxviii f. 1, 2; pl. xxiii f. 11; *P.* (*P.*) *glypha* Oahu (Koolau Range, Ewa) pp. 128, 133 pl. xxiii f. 9, 10; (Part 3 pl. lxii f. 1, 2 [not yet published]); *P.* (*Mauka*) *welchi* Oahu (Koolau Range, Waialua) p. 133 pl. xxiii f. 15, 16, (Part 3 pl. xlii f. 7, 8 [not yet published]); *P.* (*M.*) *polita* Oahu (Koolau Range, Koolauloa) pp.

134, 135 pl. xxxi f. 1, 2; pl. xxiii f. 14; *P.* (*M.*) *similaris* Oahu (Waianae Mountains Ewa-Waianae) pp. 134, 136 pl. xxxi f. 3, 4; *P.* (*Piena*) *grandis* Oahu (Koolau Range, Honolulu, pp. 134, 136 pl. xxxvii f. 4; pl. xxxi f. 5, 6; pl. xxiii f. 18, 19; *P.* (*P.*) *parva* Oahu (Koolau Range, Honolulu) pp. 134, 137 pl. xxxvii f. 5; pl. xxiii f. 17; *P.* (*P.*) *palawai* Oahu (Waianae Mts., Ewa) pp. 134, 137 pl. xxxi f. 7, 8; pl. xxiv f. 1, *P.* (*Haleakala*) *hahakeae* West Maui (Lahaina) pp. 138, 141 pl. xxx f. 11, 12; *P.* (*H.*) *guavarum* West Maui (Wailuku) pp. 139, 142 pl. xxx f. 9, 10; *P.* (*H.*) *pusilla* Molokai (East) pp. 139, 143 pl. xxxix f. 11, 12; pl. xxiv f. 5; *P.* (*H.*) *interjecta* Lanai pp. 139, 143 pl. xxviii f. 3, 4; *P.* (*Hiloaa*) *hiloi* = *P. cicercula* Gould 1846 in part, p. 143 pl. xxix f. 13, 14; pl. xxiv f. 7, 8; *P.* (*H.*) *piihonuae* Hawaii (South Hilo) p. 144 pl. xxx f. 5, 6; pl. xxiv f. 9; *P.* (*Aa*) *waiheensis* West Maui (Wailuku) p. 146 pl. xxiv f. 13; (Part 3 pl. lxii f. 4, 5 [not yet issued]); *P.* (*A.*) *mapulehuae* E. Molokai pp. 146, 147 pl. xxviii f. 9, 10; *P.* (*A.*) *gouveiana* Hawaii (S. Kona) pp. 146, 147 pl. xxxix f. 9, 10; pl. xxiv f. 11, 12; *P.* (*Oafatua*) *fatuhivae* Fatuhiva Marquesas pp. 149, 150 pl. xl f. 1–3; *P.* (*O.*) *uapouae* Uapou Marquesas pp. 149, 151 pl. xxxii f. 9, 10; *P.* (*O.*) *micra* Hivaoa Marquesas pp. 150, 151 pl. xxxii f. 5, 6; pl. xxiv f. 16; *P.* (*Nukupiena*) *ordinaria* Nukuhiva Marquesas p. 153 pl. xl f. 14, 15; pl. xxiv f. 20; *P.* (*N.*) *inflata* Nukuhiva Marquesas p. 154 pl. xxviii f. 11, 12; pl. xxv f. 5; *P.* (*Uafatua*) *helicarion* Uapou Marquesas p. 156 p. xl f. 4–6; pl. xxv f. 4; *P.* (*U.*) *obliqua* Fatuhiva Marquesas pp. 156, 157 pl. xxxi f. 13, 14; *P.* (*Nesarion*) *tenuissima* Hivaoa Marquesas p. 157 pl. xxxi f. 11, 12; pl. xxv f. 6–8; *P.* (*Rapafila*) *zimmermani* Rapa (N.W.) Austral Islands p. 158 pl. xl f. 7–9; pl. xxv f. 9, 10; *P.* (*R.*) *tenuior* Rapa (N.W.) Austral Islands pp. 159, 160 pl. xl f. 10, 11; pl. xxv f. 11, 12; **spp. nov.**, H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940.

Philonesia (*Philonesia*) *fallax popouwelae* Oahu (Waianae Mountains, Ewa) pp. 116 123 pl. xxix f. 1, 2; *P.* (*P.*) *hartmanni palehuae* Oahu (Waianae Mountains, Ewa) pp. 128, 129 pl. xxxix f. 7, 8; *P.* (*Haleakala*) *turgida diducta* East Maui (Makawao) pp. 138, 140 pl. xxx f. 7, 8; pl. xxiv f. 2, 3; *P.* (*Nesarion*) *tenuissima obesior* Hivaoa Marquesas p. 158 pl. xl f. 12, 13; *P.* (*N.*) *tenuissima tahuatae* Tahuata Marquesas p. 158 pl. xxxi f. 15; *P.* (*Rapafila*) *zimmermani tautautui* Rapa (S.) Austral Islands p. 160 p. xxxii f. 1, 2; *P.* (*R.*) *tennior karaporahi* Rapa (S.) Austral Islands p. 161 pl. xxxii f. 3, 4; **subspp. nov.**, H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940.

Pitcairnia **subgen. n.** of *Philonesia* type *P. pitcairnensis* **sp. n.**, H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940 pp. 106, 107 key to spp. p. 110.

Plectopylis azona hensanensis **subsp. n.** Henz-shan-hsien, Hunan China, T. C. Yen Abh. Senckenb. naturf. Ges. **444** 1939 p. 133 pl. xi f. 17.

Polygyra appressa extrema **var. nov.** Jefferson Co., Tennessee, G. V. MacMillan Nautilus **53** 3 1940 p. 98.

Rapafila **subgen. n.** of *Philonesia* type *P. zimmermani* **sp. n.**, H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940 pp. 107, 109.

Triodopsis [*Polygyra* on plate] *tridentata rugosa* **var. nov.** Damp Ravine, Blair Mountain 1 m. S.-W. of Blair, Logan Co., West Virginia, S. T. Brooks & G. K. MacMillan Nautilus **53** 3 1940 p. 96 pl. xii f. 3.

Uafatua **subgen. n.** of *Philonesia* type *P. helicarion* **sp. n.** H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940 pp. 107, 109.

Uapuneutra **subgen. nov.** of *Hiona*, type *H. cookeana* **sp. n.**, H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940 pp. 163, 164 pl. xlii f. 13–15; pl. xxv f. 13–15.

Vitrina major in Devon, A. E. Ellis **101**.

Waikoua **subgen. n.** of *Philonesia* type *P. kaliella* **sp. n.**, H. B. Baker Bull. Bishop Mus. Honolulu **165** 1940 p. 107.

ARIOPHANTACEA.

Discus patulus carinatus **nom. nov.** for *D. p. angulatus* non *D. macclintocki angulatus*, F. C. Baker, G. K. MacMillan Nautilus **53** 4 1940 p. 143.—*D. macclintocki* F. C. Baker alive in Iowa, J. P. E. Morrison, **298**.

Girasia hainanensis **sp. n.** Hammocks, Hainan China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 123, p. xii f. 31.

Helicarion (*Africarion*) *Coranensis* Neghelli, Javello, Borana p. 419 fig. **2**-1 to 6; *H.* (*A.*) *dauensis* Neghelli, Javello, and Arero, Borana p. 420, fig. **2**–7, 8 : **spp. n.**, PIERSANTI Missione Biol. Paese dei Borana, Roma **3** 2 1939.

Kaliella pyramidata **sp. n.** Hoihow, Hainan China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 116 pl. xi f. 40.

Macrochlamys angigyra **sp. n.** Kwangsi China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 120 pl. xii f. 16.

Microcystis hainanica **sp. n.** China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 117 pl. xi f. 45.

Zingis dainellii Neghelli, Borana p. 421 fig. **3**—6, 7; *Z. neghelliana* Neghelli, Borana p. 422, fig. **3**—8 : **spp. n.**, PIERSANTI Missione Biol. Paese dei Borana. Roma **3** 2 1939.

ACAVACEA.

Strophocheilus jenksianus **sp. n.** East slope of the Huallaga valley directly opposite Huánuco, Peru, PILSBRY Notul. Nat. Philad. **56** 1940 p. 2 fig. I.

BULIMULACEA.

Bulimulus (*Phenacotaxus*) *endoptyx* **sp. n.** Huánuco, Peru, PILSBRY Notul. Nat. Philad. **56** 1940 p. 4 f. 2b, c, d.

Drymaeus tropicalis in Yucatan, BEQUAERT & CLENCH **39**.

Holospira (*Haplocion*) *kinonis* **sp. n.** in tidal drift 2 miles S. of Cochore near Guaymas, Sonoras Mexico, J. L. & R. I. BAILY Nautilus **53** 3 1940 p. 94 pl. xii f. 1.

Liguus collecting Florida, H. G. BLACKWELL **43**.

Naesiotus quitensis jacksoni Guaillabamba, p. 116 pl. xiii f. 1, 5; *N. q. orinus* foothills of Chimborazo near Riobamba, Prov. del Chimborazo 12,000 feet; *N. q. vermiculatus* Agoyan on the Rio Pastaza near Baños Tunguragua, Prov. del Tunguragua p. 117 pl. xiii f. 17, 19; *N. q. ambatensis* Ambato, Prov. del Tunguragua p. 117, pl. xiii f. 12, 14 : **subspp. n.** Ecuador, H. A. REHDER Nautilus **53** 4 1940.

Oxystyla undata floridensis Pils. introduced on Sanibel Island Florida, W. S. CLENCH **78**.

Pectinistemma **subgen. nov.** p. 315 of *Propilsbrya* type *P.* (*Pectinistemma*) *koestner* **sp. n.** Cerro Potose, Galeana, State of Nuevo Leon, Mexico p. 316 figs. 1–3, H. A. REHDER J. Wash. Acad. Sci. **30** 7 1940.

Urocoptis (*Autocoptis*) *olssoni* Pils. nepionic sculpture fig., G. C. SPENCE **413**.

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Bradybaena similaris hongkongiensis in Louisiana, C. GOODRICH **134**.

†*Cathaica orithyia* (Martin) figs. Sanmeniau fossil, Y. OTUKA **323**.

†*Cepolis caroli* **sp. n.**? Pleistocene canal W. of Boynton, Palm Beach County Florida, T. & L. MCGINTY Nautilus **53** 3 1940 p. 81, pl. x f. 6, 6a.

Cochlostyla mathematics of shell growth, I. HAMAI **148**.

Corynadenia **subgen. nov.** of *Monadenia* type *Helix hillebrandi* Newcoat 1864, S. S. BERRY Bull. S. Calif. Acad. Sci. **38** 3 1940 pp. 203, 204.

Euhadra quaesita discharging dart, fig. [I. TAKI] **428**.

Fruticicola lantzi decrease in weight and mortality of sinistral individuals, GAUSE & SMARAGDOVA **127**.

Ganesella trochacea pallens **subsp. n.** Kwei-dshow p. 127 pl. xiii f. 17; *G. conispira* **sp. n.** Patung, Hupei p. 128 pl. xiii f. 22; *G. aegistoides* **sp. n.** Patung, Hupei p. 128 pl. xiii f. 24; *G. subtrochus* **sp. n.** Patung, Hupei p. 128 pl. xiii f. 25 China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939.

Helicella ericetorum, candidula Hanoverian distribution, maps, E. MÄDER **268**.

Helix pomatia Nervous System, A. ÁBRAHÁM **2**.—*H. p. lutescens*, L. NEONRIÉ **291**.—*H.* experiments on nerve preparation and method, J. A. RAMSAY **353**.

Helminthoglypta cuyamacensis lowei, W. O. GREGG **140**.—*H.* in Santa Cruz, M. W. WILLIAMS **466**.

Humboldtiana fortis Sierra Potosi 10,000 ft. Nuevo Leon ; *H. montezuma* summit of El Infernillo, Sierra Madra Oriental, Nuevo Leon 10,000 ft., **spp. n.** Mexico, H. A. PILSBRY Nautilus **53** 4 1940 p. 140.

Hygromia odeca in Devon, A. E. ELLIS **101.**

Meliobba shafferyi **gen. et sp. n.** Helicidae Mossman Queensland, T. IREDALE Aust. Nat. Sydney **10** 7 1940 pp. 239, 240 text fig.

†*Metodontia honaiensis* Crosse Sanmenian fossil, figs., Y. OTUKA **323.**

Monadenia marmarotis Marble Valley Siskiyow Co. p. 3 f. 1, 2 ; *M. rotifer* Salmon Mts. Siskiyow Co. p. 5 f. 3, 4 ; *M. callipeplus* Tompkin's Creek p. 6 5, 6 ; *M. aethulata* Pleasant Valley Lake, Siskiyow Co. p. 7 f. 7, 8 ; *M. chaceana* Spur Badger Mts., W. side of Shasta River Cañyon Siskiyow Co. p. 9 f. 9, 10 ; **spp. n.** California : *M. fidelis scottiana* Kelsey Creek Siskiyow Co. p. 11 f. 11, 12 ; *M. f. callidens* S. side of Klamath R. Del Norte Co. p. 13 f. 13, 14 ; *M. f. smithiana* N. side of South R. Del Norte Co. p. 14 f. 15, 16 ; *M. infumata alamidensis* Alamida Co. p. 15 f. 17 ; **subspp. n.** California, S. S. BERRY J. Ent. Zool. Claremont Calif. **32** 1940.—*M. fidelis* Gray Northern range, W. S. EYERDAM **105.**

Levantina cypriotes **sp. n.** Agios (or Hagios) Andronicos, near Karpas (or Kharpas), TOMLIN Proc. Malac. Soc. **24** 1 1940 p. 32 pl. ii text figs. p. 33.

Obba mathematics of shell growth, I. HAMAI **148.**

Oreohelix strigosa depressa Cockerell, D. T. JONES **194.**

Pseudaspasita platytrochus minor **subsp. nov.** Patung Hupei, China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 156 pl. xvi f. 19.

Trichochloritis hunanensis **sp. n.** Hunan, China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 130 pl. xiii f. 38.

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Elma oblongata **sp. n.** Lung-so-tan, Kwangtung, China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 160 pl. xvi f. 32.

Haploptychius juedelli **sp. n.** Hainan, China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 159 pl. xvi. f. 30.

Macrocycloides crenulata Hongkong p. 157 pl. xvi f. 20 ; *M. hainanensis* Haikow, Hainan p. 157 pl. xvi f. 21 ; **spp. nov.** China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939.

Odontartemon schomburgi **sp. n.** Hainan, China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 158 pl. xvi f. 25.

Sinoennea kwangsiensis **sp. n.** Kwangsi, China, T. C. YEN Abh. Senckenb. naturf. Ges. **444** 1939 p. 161 p. xvi f. 38.

Streptaxis (*Edentulina*) *zavattarii* **sp. n.** Malca Guba Borana, PIERSANTI Missione Biol. Paese dei Borana Roma **3** 2 1939 p. 418 f. 1–1, 2.

Scaphopoda.

DENTALIACEA.

†*Cadulus waynensis* **sp. n.** [Oligocene] lower Chickasawhay Marl 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha. Wis. **14** 3 1940 p. 202 pl. xxvii f. 33.

Dentalium (*Antalis*) *tibanum* **sp. n.** off Tiba Prefecture Japan, S. NOMURA Rec. oceanogr. Works Japan **12** 1 1940 p. 101 pl. i f. 11a–b.—*D.* (*Graptacme*) *pistis* **sp. n.** Madras, WINCKWORTH Proc. Malac. Soc. **24** 2 1940 p. 43 f. 6.

†*Siphonodentalium seriaeforme* **sp. n.** Paleocene Copenhagen RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 48 pl. i f. 18a–b.

Pelecypoda or Lamellibranchiata.

Pelecypoda from the Jurassic of Mexico, R. W. IMLAY **175.**

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†*Leda accepta* **sp. n.** Oligocene, clays and siderites, N. & S. Yergheny, E. V. LIVEROWSKAJA Bull. Soc. Nat. Moscow Sect. Geol. N.S. **47** 4–5 1939 pp. 155, 166 pl. i f. 4, 5.—†*L. attenuata* Flem. *kizelensis* **var. nov.** pp. 68, 128,

pl. iv f. 11–13; *L. acuta* **sp. n.** pp. 69, 129 pl. iv f. 5, 6; Carboniferous Kizel district Russia, GORSKY & TIMOFEEVA Trans. Central Geol. and Prosp. Inst. U.S.S.R. **111** 1939.

Malletia gigantea figs., E. STOLL **418.**

Nucula camia **nom. nov.** for *N. amica* Gardner 1915 non Barrande 1881, J. GARDNER J. Paleont. Menasha Wis. **14** 3 1940 p. 285.—*N. nucleus, nitida.* H. CASPERS **70.**—*N.* fig., W. A. HILTON **161.**

†*Nucula* (*Palaeonucula*) *kaoraënsis* p. 15 pl. i f. 11–14; *N.* (*P.*) *blanfordi* p. 16 pl. i f. 15–19; *N.* (*P.*) *stoliczkai* p. 20 pl. i f. 11–23; **spp. n.** Jurassic, Kachh India, L. R. COX Palaeont. Indica (IX) **3** 3 1940.—†*N.* (*Linucula*) *wanganuica* Nukumaru Wilkie's Bluff p. 45 pl. v f. 10; *N.* (*L.*) *aptera* Waihi Beach, Hawera p. 46 pl. v f. 1; **spp. n.** Pliocene New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 p. 35.—†*N. kalnickensis* **sp. n.** S. & N. Yergheny Oligocene, E. V. LIVEROWSKAJA Bull. Soc. Nat. Moscow Sect. Geol. N.S. **47** 4–5 1939 pp. 154, 166 pl. i f. 9–12.

Nuculana (*Jupiteria*) *husamaru* **sp. n.** off Tiba Prefecture, Japan, S. NOMURA Rec. oceanogr. Works Japan **12** 1 1940 p. 89 pl. i f. 5a–b.

†*Nuculana* (*Praesaccella*) *juriana* **sp. n.** Jurassic, Kachh, India, L. R. COX Palaeont. Indica (IX) **3** 3 1940 p. 33 pl. ii f. 6–9.—†*N. ciceensis* **sp. n.** Conglomerate Flysch horizon Russia, I. A. KOROBKOF Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938 p. 242 pl. i f. 8, 9.

†*Nuculina glabra* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 30 pl. i f. 3a–c.

†*Nuculoma wynnei* p. 23 pl. i f. 29–31; *N. blakei* p. 24 pl. i f. 24–28; **spp. n.** Jurassic, Kachh, India, L. R. COX Palaeont. Indica (IX) **3** 3 1940.

†*Nuculopsis ventricosa* Hall *minima* **var. nov.** Carboniferous Kizel district Russia, GORSKY & TIMOFEEVA Trans. Central Geol. & Prosp. Inst. U.S.S.R. **111** 1939 pp. 66, 128 pl. iv. f. 8–8b.

†*Palaeoneilo belaënsis* p. 6 pl. i f. 1, 2; *P. indicus* p. 7 pl. i f. 3, 4; **spp. n.** Jurassic, Kachh, India, L. R. COX Palaeont. Indica (IX) **3** 3 1940.—†*P. ellipticus* Herrick *tenuistriata* **var. n.** Carboniferous Kizel district Russia, GORSKY & TIMOFEEVA Trans. Central Geol & Prosp. Inst. U.S.S.R. **111** 1939 pp. 65, 127 pl. iv f. 1.

†*Yoldia arctica*, OLIVEIRA **319.**

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†*Anadara morrumbenensis* **sp. n.** Pliocene Morrumbene Mozambique, L. R. COX Bol. Serv. Ind. Min. Geol. Col. Moçambique **3** 1939 pp. 37, 81 pl. ii f. 19a–b.

†*Arca briarti* **sp. n.** Cretaceous Hainaut, R. MARLIÈRE Mém. Mus. Hist. nat. Belg. **89** 1939 p. 20 pl. i f. 9a–b text-fig. 4.—†*A.* (*Anadara*) *gokiensis* **sp. n.** Goki beds, Sintiku series Roppun, Sankyôsyô Kaizangun, K. TAN Taiwan Tigaku Kizi Taikoku **11** 2 1940 p. 39 pl. ii f. 12, 13.

†*Aupouria rotunda* p. 429 f. 12; *A. elongata* p. 429 f. 4, 13, **spp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940.

†*Cosa separabilis* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 429 f. 2.

†*Cucullaea* (*Megacucullaea*) *eminens* **sp. n.** Jurassic Kachh India, L. R. COX Palaeont. Indica (IX) **3** 3 1940 p. 59 pl. iv f. 5, 7.

†*Cyrtodonta septentrionis* **sp. n.** North arm, Gt. Slave Lake, N.W. Territories Ordovician, G. S. HUME Canad. Dept. Mines Geol. Serv. Bull **44** 1926 [1929] p. 63 pl. xiii f. 5a–c.

†*Glycymeris africana* **sp. n.** Pliocene Morrumbene Mozambique, L. R. COX Bol. Serv. Ind. Min. Geol. Col. Moçambique **3** 1939 pp. 37, 81 pl. ii f. 11.—†*G. matumoriensis* Miocene Japan, HATAI & NAKAMURA **155.**

†*Grammatodon andhouensis* p. 41 pl. ii f. 12–14; *G. jurianus* p. 43 pl. ii f. 15–10; *G.* (*Indogrammatodon*) *blakei* p. 50 pl. iii f. 2a–c; *G.* (*I.*) *kantkotensis* p. 51 pl. iii f. 1a–c; *G.* (*I.*) *iddurghurensis* p. 52 pl. iii f. 3–6, pl. iv f. 1–2, **spp. n.** Jurassic, Kachh India, L. R. COX Palaeont Indica (IX) **3** 3 1940.

†*Hochstetteria waitotara* **sp. n.** Wilkie's Bluff (Pliocene) New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 pp. 36, 46 pl. v f. 2–3.

†*Limopsis monbergi* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 30 pl. i f. 2a–b.

Noetinae Tertiary of America, F. S. MACNEIL **257**.

Parallelodon lerensis **sp. nov.** Jurassic Kachh India L. R. COX Palaeont Indica (IX) **3** 3 1940, p. 39, pl. ii, f. 11.

MYTILACEA.

†*Gervillella kantkotensis* **sp. n.** Jurassic Kachh India, L. R. COX Palaeont. Indica (IX) **3** 3 1940 p. 115 pl. viii f. 1–5.

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†*Lycettia indica* **sp. n.** Jurassic Kachh India, L. R. COX Palaeont. Indica (IX) **3** 3 1940 p. 85 pl. v f. 19, 20.

†*Modiolus patchamensis* **sp. n.** Jurassic Kachh India, L. R. COX Palaeont. Indica (IX) **3** 3 1940 p. 63 pl. iv f. 8.

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†*Myalina* de Koninck 1842 Descr. anim. foss. terr. Carbon Belge p. 125 genolectotype *M. goldfussiana* pl. i f. 1a–2b–3 de Léon. 1842 desig. by Stoliczka 1871 Palaeont. Indica **3** p. 366, N. D. NEWELL **308**.

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†*Naiadites* Dawson 1860 Acadian Geol. Sup. 1st ed. p. 43 genolectotype *N. carbonarius* Dawson 1860 desigd. by Hind 1894, Q. J. Geol. Soc. London **50** p. 439; *N. carbonarius* pl. ii f. 4a–c, *quadrata* pl. ii f. 5a, b, N. D. NEWELL, **308**.

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†*Myophoria morigera* **sp. n.** (Trias) Dry Canyon shoulder Peace R. Foothills British Columbia, F. H. MCLEARN Canadian Field Natst. **54** 8 1940 p. 112 pl. iii f. 6.

†*Trigonia guksani* **sp. n.** Jurassic Hudson Bay Mountain British Columbia F. H. MCLEARN Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 94 pl. xx 2, 3.—†*T. elongata lata* Lycett; *T. scarburgensis* Lycett, figd. from Fuller's Earth, Langton Herring, Dorset W. J. ARKELL **15**.

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†*Halobia pacalis* **sp. n.** Pardonethill p. 111 pl. iii f. 7, 8; *H. symmetrica lata* **var. n.** Twin Spruce Gully p. 111 pl. iii f. 1 (Trias.) Peace River foothills, British Columbia, F. H. MCLEARN **54** 8 1940.

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†*Leiopteria hirundo* Kon. *parallela* **var. nov.** Carboniferous Kizel district Russia, GORSKY & TIMOFEEVA Trans. Central Geol. & Prosp. Inst. U.S.S.R. **111** 1939 pp. 85, 133 pl. vi f. 15.

†*Oxytoma submcconnelli* **sp. n.** Jurassic Hudson Bay Mountain, British Columbia, F. H. MCLEARN Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 92 pl. xxiii f. 1.

†*Perna khudyaevi* **sp. n.** Jurassic East Transbaikalia, G. KRIMHOLZ Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938 p. 272 pl. ii f. 4–7.—†*P. weelaupensis* **sp. n.** Jurassic Hudson Bay Mountain, British Columbia, F. H. MCLEARN Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 93 pl. xix f. 1, 2.

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†*Pinna stoliczkai* **sp. n.** Jurassic Kachh India, L. R. COX Palaeont. Indica (IX) **3** 3 1940 p. 135 pl. x f. 9, 10.

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†*Trichites indicus* **sp. n.** Jurassic Kachh India, L. R. COX Palaeont. Indica (IX) **3** 3 1940 p. 138 pl. x f. 13a–b.

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†*Chlamys* (*Plagioctenium*) *howei* p. 178 pl. xxvi f. 1, 3, 4; *C.* (*P.*) *mcguirti* p. 180 pl. xxvi f. 7, 11; *C.* (*Aequipecten*) *gainestoconensis* p. 181 pl. xxvi f. 9, 19, 20; *C.* (*A.*) *glendonensis* p. 182 pl. xxvi f. 15, 21; *C.* (*A.*) *waynensis* p. 182 pl. xxvi f. 17, 18; **spp. n.** lower Chickasawhay marl [Oligocene] Alabama; *C.* (*A.*) *chickaria* p. 183 pl. xxvi f. 6, 16 **sp. n.** lower Chickasawhay marl, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940.

†*Chlamis sanatoria* err. pro *Chlamys senatoria*, L. R. COX Bol. Serv. Ind. Min. Geol. Col. Moçambique **3** 1939, p. 83.

†*Chlamys* (*Aequipecten*) *scabra* (Pulteney) fig., L. R. COX **86.**

†*Ctenostreon gikshanensis* **sp. n.** Jurassic, Hudson Bay Mountain, British Columbia, F. H. MCLEARN Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 91 pl xix f. 3, 4.

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†*Lima tizglensis* **sp. n.** Jurassic Hudson Bay Mountain, British Columbia, F. H. MCLEARN Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 92 pl. xx f. 1.

†*Neithea gibbosa* (Pulteney) fig., L. R. COX, **86.**

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†*Plagiostoma hazeltonense* **sp. n.** Jurassic Hudson Bay Mountain, British Columbia, F. H. MCLEARN Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 94 pl. xxi f. 1; pl. xxii f. 1–5.

†*Propeamussium hauniense* **nom. nov.** for *Pecten prestwichi* v. Koenen 1885, non Morris 1852, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 43.

†*Syncyclonema* ? *concentricum* (Pulteney) fig., L. R. COX **86**.

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†*Unio andradei* **sp. n.** Lias ? Lebombo Volcanic formation Africa, RENNIE Bol. Serv. Ind. Min. Geol. Col. Moçambique **1** 1937 p. 19 pl. ii f. 8–12.

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†*Astarte sakawana* **sp. n.** Cretaceous Nagute Province Japan, KOBAYASHI & SUZUKI Japan J. Geol. Geogr. **16** 3–4 1939 p. 219 pl. xiii f. 11–13.

†*Chattonia trigonata* Lk. *keeni* **var. nov.** = *Crassatella trigonata* Cossmann non Lamarck Lutetian Bois-Gouët type figs. 6, 7, 8 pl. ix of Cossmann Moll. Eocén. Loire Infer. III 1904–6 fig. 7 of pl. ix holotype, CHAVAN Bull. Mus. Hist. nat. Belg. **15** No. 34 1939 p. 9.—*C. t.* (Lk.) *bartonensis* Wood figs. of hinge teeth, A. CHAVAN **74**.

†*Conocardium aliforme* Sow. *asinuata* **var. n.** pp. 75, 130 pl. iv f. 23, 24; *C. kizelense* **sp. n.** pp. 75, 130 pl. iv f. 26, 27; Carboniferous Kizel district Russia, GORSKY & TIMOFEEVA Trans. Central Geol. & Prosp. Inst. U.S.S.R. **111** 1939.

†*Crassinella branneri* (Arnold) fig. of hinge teeth, A. CHAVAN **74.**

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†*Crassatina bonneti* Cossm. *marwicki* **var. nov.** (= C. *bonneti* Cossm. pars) Pliocene Karikal right valve figd. by Cossmann (Fauna. plioc. Karikal. J. de C. 68 1923 pl. vi f. 14, 15), CHAVAN Bull. Mus. Hist. nat. Belg. **15** No. 34 1939 p. 24.

†*Cuna ngatutura* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 341 f. 7, 25

Cuna morator Waiki Beach Hawera pl. vi f. 14; *C. nukumaruensis* Nukumaru pl. vi f. 13 **spp. n.** Pliocene New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 p. 36.

†*Scambula filleti* nom. mut. = *Astarte sinuata fillet* non Orb. Barriman Wassy, A. CHAVAN Bull. Mus. Hist. nat. Belg. **15** No. 34 1939 p. 33 text-figs. 8, 9. *Scambula perplana* Conrad fig.

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†*Condylocardia dupliora* **sp. n.** Waitotaran [Miocene] Kaawa Creek New Zealand, LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 432 f. 9.

†*Pleuromeris waitotarana* **sp. n.** Waitotaran [Miocene] Kaawa Creek, New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **69** 4 1940 p. 431 f. 11, 15.—*P. paucicostata* Pliocene Nukumaru New Zealand, C. R. LAWS Trans. Proc. Roy. Soc. N.Z. **70** 1 1940 p. 48 pl. v f. 7, 8.

†*Venericardia waynensis* **sp. n.** lower Chickasawhay marl [Oligocene] Alabama, W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 189 pl. xxv f. 9, 10, 18.—*V. roedeli* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 31 pl. i f. 4a–b.—*V.* (*Cyclocardia* ?) *abesinaiensis* sp. n. Miocene, Tesio Province Japan, Y. OTUKA Japan J. Geol. Geogr. **17** 1–2 1940 pp. 91, 94 f. 10.

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†*Isodomella* **sec. nov.** of *Polymesoda* Raf. 1820 type *Cyrena shiroiensis* Yabe & Nagao, Cretaceous Japan, KOBAYASHI & SUZUKI Japan J. Geol. Geogr. **16** 3–4 1939 p. 219 pl. xiv f. 1–9.

†*Paracorbicula* **sec. nov.** p. 220 of *Corbicula* M. v. Mühl. 1811, type *Corbicula sanchuensis* **sp. n.** p. 221 pl. xiv f. 10–15 Cretaceous Japan, KOBAYASHI & SUZUKI Japan J. Geol. Geogr. **16** 3–4 1939.

Pisidium (*Neopisidium*) *tenuilineatum* Stelfox var *suecicum* **nov.** Stensjöu Sweden, ODHNER Ark. Zool. Stockholm **32** A 11 1940 p. 9 pl. i f. 8.—*P.* Classification, Diagnosis and figures of British species, A. E. ELLIS **102.**

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†*Corbis korotkovi* Korobkov *edecimata* **var. nov.** Conglomerate Flysch horizon Russia, I. A. KOROBKOF Trav. Soc. Nat. Sect. Géol. Leningrad **67** 1938 p. 244 pl. i f. 5.

†*Diplodonta* (*Sphaerella* ?) *waynensis* **sp. n.** lower Chickasawhay marl 2½ m. W. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 193 pl. xxv f. 12.

†*Divaricella mozambicensis* **sp. n.** Post Pliocene Chai-Chai Mozambique, L. R. COX Bol. Serv. Ind. Min. Geol. Col. Moçambique **3** 1939 pp. 55, 99 pl. ii f. 18.

†*Loripes* (*Microloripes*) *lemonnieri* **sp. nov.** Rutot MSS. Eocene Mons, CHAVAN Bull. Mus. Hist. nat. Belg. **16** 10 1940 p. 9 pl. i f. 9–14.

†*Miltha* (*Recticardo*) *solvayi* Rutot MSS. (in Vincent) nov. sp. pl. i fig. 4, 5, 15–17 p. 14, CHAVAN Bull. Mus. Hist. nat. Belg. **16** 10 1940.

†*Myrtaea* (*Myrtaea*) *taylorensis* lower bed of blue marl 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 191 pl. xxv f. 20, 21.

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†*Dexiobia chouteauensis* **sp. n.** Mississippian (Carboniferous) Knox Co. Missouri U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938 p. 95 pl. xii f. 17. —†*D. varicostata* **sp. n.** Northview Siltstone, King Butte, Missouri Mississippian (Carboniferous) U.S.A., F. B. BRANSON Univ. Mo. Stud. **13** 4 1938 p. 37 pl. xxv f. 21, 22.

†*Nemocardium diversum waynense* **subsp. n.** lower Chickasawhay Marl [Oligocene] Alabama, W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 195 pl. xxv f. 27, 28.

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†*Dosinia sibataensis* **sp. n.** Neogene Sennan District, Miyagi Prefecture, Japan, NOMURA & ONISI Jap. J. Geol. Geogr. Trans. & Abs. **17** 3/4 1940 p. 183 pl. xviii f. 1.

†*Macrocallista* (*Chionella* ?) *perduensis* **sp. n.** lower Chickasawhay Marl [Oligocene] ¼ m. N. of Perdue Hill, Monroe Co. Ala., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 196 pl. xxv f. 19, 30, 31.

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Tellina (*Angulus*) *rubricata* **sp. n.** 5 fur. off Blind Pass, Sanibel Island, Florida, L. M. PERRY Nautilus **53** 3 1940 p. 79.

†*Tellina* (*Peronidia*) *t-matumotoi* **sp. n.** on p. 91; *T.* (*P.*) *lutea t-matumotoi* **subsp. n.** on p. 96, Miocene, Tesio Province, Japan, Y. OTUKA Japan J. Geol. Geogr. **17** 1–2 1940 f. 7, 8.

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†*Panope taylorensis* **sp. n.** [Oligocene] lower blue marl Taylor Mill Creek, 1½ m. N. of Waynesboro, Wayne Co. Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 200 pl. xxv f. 49.

†*Panopae goldfussii, norwegica, americana* figs., E. M. PALMER **330**.

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†*Corbula* (*Caryocorbula*) *taylorensis* **sp. n.** lower Chickasawhay Marl [Oligocene] Mississippi, W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 200 pl. xxv f. 29, 32, 37.—†*C. corneti* **sp. n.** Cretaceous Hainaut, R. MARLIÈRE Mém. Mus. Hist. nat. Belg. **89** 1939 p. 79 pl. v f. 5a–b text-figs. 16a–b.

†*Cuneamya agnesae* **sp. n.** Caradocian, Balclatchie beds, Ordovician Balclatchie near Girvan, Ayrshire, F. R. C. REED Ann. Mag. nat. Hist. **6** (11) 1940 p. 155 pl. viii f. 4a–b.

†*Mya arenaria*, TREFETHEN & HARRIS **443**.

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†*Allorisma chouteauensis* Chouteau limestone, Fabeus River, Knox Co. **sp. n.** Mississippian (Carboniferous) Missouri U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938 p. 101 pl. xiii f. 35–37.

†*Anthracomya salteri* **sp. n.** from above the Musselband Coal Rawyards, Lanarkshire, LEITCH Quart. J. Geol. Soc. London **96** 1 1940 p. 31 text-fig. 7a–d.

†*Edmondia elliptica* **sp. n.** Chouteau Limestone, Providence, Missouri Mississippian (Carboniferous) U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938 p. 86 pl. xii f. 15, 16.

†*Grammysia swallowi* Chouteau limestone Pettis Co. Missouri p. 82 pl. x f. 5, 6; *G. chouteauensis* Chouteau limestone, Pettis Co. Missouri p. 83 pl. x f. 7; *G. missouriensis* Fabeus R. Knox Co. p. 83 pl. x f. 15; **spp. n.** Mississippian (Carboniferous) Missouri U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938.

Periploma alaskana **sp. n.** 32 fms. 68° 37′ N., 168° 53′ W., Arctic Ocean, M. W. WILLIAMS J. Ent. Zool. Claremont Cal. **32** 1940 p. 37 text-fig.

Phlycticoncha **nom. nov.** for *Phlyctiderma* Bartsch & Rehder 1939 non Dall 1899, BARTSCH & REHDER Nautilus **53** 4 1940 p. 137.

†*Pholadomya turunagai* **sp. n.** Miocene Taiwan, K. TAN Jap. J. Geol. Geogr. Trans. Abs. **17** 3/4 1940 p. 159 pl. xiii.—†*P. t.* **sp. n.** [?] Goki beds Sintiku series Kaizangun, K. TAN Taiwan Tigaku Kizi Taikohu **11** 2 1940 p. 35 pl. ii f. 9.

Promacrus pustulosus p. 79 pl. xi f. 1; Chouteau limestone, Providence, Missouri; *P. rowleyi* p. 79 pl. xi f. 4, Chouteau limestone 4 m. N. of Sedalia, Missouri, **spp. n.** Mississippian (Carboniferous) U.S.A., E. B. BRANSON Univ. Mo. Stud. **13** 3 1938.

†*Thracia freitasi* **sp. n.** Lower Miocene Inhacraia Mozambique, L. R. Cox Bol. Serv. Ind. Min. Geol. Col. Moçambique **3** 1939 pp. 35, 78 pl. ii f. 7, 8.—†*T.* (*Cyathodonta*) *taylorensis* **sp. n.** lower Chickasawhay Marl [Oligocene Taylor Mill Creek, 1½ m. N. of Waynesboro, Miss., W. C. MANSFIELD J. Paleont. Menasha, Wis. **14** 3 1940 p. 187 pl. xxv f. 39.

SEPTIBRANCHIATA.

POROMYACEA.

†*Cuspidaria triradiata* (*Neaera t.* Edwards MS.) **sp. n.** London clay, A. WRIGLEY Proc. Malac. Soc. **24** 1 1940 p. 7 f. 5, 6.

†*Sanguinolites elongatus* **sp. n.** Carboniferous Kizel district Russia, GORSKY & TIMOFEEVA Trans. Central Geol. & Prosp. Inst. U.S.S.R. **111** 1939 pp. 78, 131 pl. iv f. 28.

Cuspidaria (S.S.) *suganumai* **sp. n.** off Tiba Prefecture, Japan, S. NOMURA Rec. oceanogr. Works Japan **12** 1 1940 p. 101 pl. i f. 13 a, b.

†*Verticordia granulosa* **sp. n.** Paleocene Copenhagen, RAVN K. danske Vidensk. Selsk. Biol. Skr. **1** 1 1939 p. 39 pl. i f. 12a, b, 13, 14a, b.

TETRABRANCHIATA.

NAUTILACEA.

†*Actinoceras complanum* **sp. n.** Richmond, Beaverfoot, Rocky Mountains, British Columbia, A. E. WILSON Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 31 pl. viii f. 3, 4.

Actinoceras the apical end, R. H. FLOWER **116.**

†*Aipoceras easleyense* Easley p. 157 pl. xliv f. 1, 2; *A. oweni* Sedalia p. 158 pl. xlii f. 1; *A. pinhookense* Pinhook Bridge 4 m. N.E. of Sedalia p. 159 pl. xl f. 1, pl. xlv f. 7; **spp. n.** Mississippian (Carboniferous) Missouri U.S.A., MILLER & FURNISH Univ. Mo. Stud. **13** 4 1938.

Aturia Upper Miocene, Java, J. W. DURHAM **99.**

†*Bathmoceras australe* **sp. n.** Lurapintine series (Ordovician) Horn Valley, Glen Helen, Western Macdonnell Ranges, Central Australia, C. TEICHERT Trans. roy. Soc. S. Aust. **63** 2 1939 p. 386 pl. xix.

†*Bathmoceras complexum* Barrande 1865, C TEICHERT **433.**

†*Cyrtoceras roemeri* **nom. nov.** = *Gomphoceras compressum* Roemer 1850 non Goldfuss 1832 p. 349 f. 5, 6.—*C. grohmanni* **sp. n.** Lower Devonian Europe, G. DAHMER Senckenbergiana Frankfurt **21** 5–6 1939 p. 351 f. 3, 4.

†*Mooreoceras cliftonense* Clifton City p. 167, pl. xliii f. 2–4; *M. pettesense* Sedalia Pettis Co. pl. xlv f. 6; **spp. n.** Mississippian (Carboniferous) Missouri U.S.A., MILLER & FURNISH Univ. Mo. Stud. **13** 4 1938.

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†*Nautilus* (*Cymatoceras*) *articulatus* Pulteney fig., L. R. Cox **86**.

†*Oncodoceras dyeri* **sp. n.** S. Fabius R. near Newark, Mississippian (Carboniferous) Missouri, U.S.A., MILLER & FURNISH Univ. Mo. Stud. **13** 4 1938 p. 161 pl. xliii f. 6–9.

†*Orthoceras kahlebergense* **sp. n.** Lower Devonian Europe, G. DAHMER Senckenbergiana Frankfurt **21** 5–6 1939 p. 340 f. 7–10.

†*Perigrammoceras georgetownense* **sp. n.** Chouteau limestone 1 m. W. of Georgetown, Pettis Co. Missouri, Mississippian (Carboniferous) U.S.A., MILLER & FURNISH Univ. Mo. Stud. **13** 4 1938 p. 150 pl. xliii f. 1.

†*Polydesmia* **subgen. nov.** of *Polydesmia*. *Polydesmia canaliculata* Lorenz p. 34 figs. 1–3, 17–19, text fig. 2, forma *magna* p. 38 f. 4–7, 20–22, Ordovician E. Asia, T. KOBAYASHI Japan J. Geol. Geogr. **17** 1–2 1940.

†Polydesmidae **fam. nov.** Nautiloidea from Ordovician Eastern Asia, T. KOBAYASHI Japan J. Geol. Geogr. **17** 1–2 1940 p. 28.

†*Poterioceras northviewense* King Butte p. 172 pl. xli f. 1, 2, pl. xxxviii f. 1; *P. subrectum* Sweeney, p. 173 pl. xxxviii f. 3, 4, **spp. n.** Mississippian (Carboniferous) Missouri U.S.A., MILLER & FURNISH Univ. Mo. Stud. **13** 4 1938.

†*Protokionoceras ? gracile* **sp. n.** Upper Ordovician Richmond Beaverfoot, Rocky Mts., British Columbia, A. E. WILSON Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 32 pl. viii f. 5, 6.

†*Rineceras americanum* **sp. n.** Chouteau limestone, Cedar Branch, Hocker Farm 3½ m. N. of Sedalia, Mississippian (Carboniferous) Missouri, U.S.A., MILLER & FURNISH Univ. Mo. Stud. **13** 4 1938 p. 156 pl. xlviii f. 4–6.

†*Spyroceras intermedium* **sp. n.** Upper Ordovician Richmond Beaverfoot, Rocky Mts., British Columbia, A. E. WILSON Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] pl. viii f. 7.

†*Vaginoceras* (?) *eccentricum* **sp. n.** Upper Ordovician, Richmond Beaverfoot, Rocky Mts. British Columbia, A. E. WILSON Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 32 pl. viii f. 2.

†*Welleroceras* **gen. n.** Poterioceratidae type *W. liratum* **sp. n.** Darville pp. 174, *177* pl. xlviii f. 2, 3, pl. xxxviii f. 2; *W. acuminatum* Pettis Coy. p. 174 pl. xxxviii f. 5; *W. dorsale* Warsaw p. 176 pl. xlvii f. 2, 3, pl. xlviii f. 1, **spp. n.** Mississippian (Carboniferous) Missouri, U.S.A., MILLER & FURNISH Univ. Mo. Stud. **13** 4 1938.

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†*Anevda* **nom. nov.** for *Advena* Palmer 1937 non Gude 1913 type of *Anevda* is *Advena* (= *Anevda*) *floweri* Palmer, PALMER J. Paleont. Menasha, Wis. **14** 3 1940 p. 285.

Blandosepia **gen. nov.** [non descr.] *baxteri* **sp. n.** Lord Howe Island, IREDALE Austl. Zoologist **9** 4 1940 p. 442.

Eusepiola robusta new organ, S. THORE **437**.

Loligo vulgaris a new organ, S. THORE **437**.—*L. japonica* influence of salinity, T. YAMAMOTO **481**.

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†*Acanthohoplites sparsicostatus* **sp. n.** p. 149 pl. i f. 7 text-fig. 14; *A. daghestanicus* p. 151 pl. ii f. 2 text-fig. 15; *A. multispinatoides* p. 158 pl. i f. 8 text-fig. 21, spp. n. Aptian N. Caucasus, J. ROUCHADZÉ Bull. Mus. Géorgie Tiflis **9A** 1938.

†*Acanthoplites* "gr. de *Nolanisimilis*" Breist=*Parahoplites nolani* Sinzow non Seun fig., P. DELEAU **92**.

†*Adrianites defordi* p. 114 pl. xxvii f. 7–12; *A. adamsi* p. 115 pl. xxvii f. 1, 2; *A. newelli* p. 117 pl. xxv f. 1–3; *A. dunbari* p. 117 **spp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

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†*Anthracoceras* ? *colubrellus* **sp. n.** Middle Carboniferous, Snake Range, Nevada, MILLER & FURNISH J. Paleont. Menasha, Wis. **14** 4 1940 p. 356, *376* pl. xlix f. 14–20 text-fig. 17A.

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†*Asklepioceras glaciense* p. 51 pl. ii f. 11; *A. laurenci* p. 51 pl. ii f. 1, 2; **spp. n.** Trias Canada, F. H. MCLEARN Canad. Field Nat. **54** 4 1940.

†*Artinskia huecoensis* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 48 pl. iii f. 1–3.

†*Atsabites williamsi* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 97 pl. xx f. 11.

Blastocerina **nom. nov.** for *Blastoceras* Flower & Caster 1935 non Fitzinger 1860, R. H. FLOWER J. Paleont. Menasha, Wis. **14** 5 1940 p. 447.

†*Buchites hilaris dawsoni* **var. n.** Trias Canada, F. H. MCLEARN Canad. Field Nat. **54** 4 1940 p. 49 pl. i f. 4, 5.

†*Coeloceras desplacei* Orb., fig., C. MAVIGLIA **276**.

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†*Crioceras ramososeptatoides* **sp. n.** p. 166 pl. iv f. 1 text-figs. 30, 31; *C. r. maxima* **var. n.** p. 169 pl. iv f. 2 text-fig. 32, Aptian Caucasus, J. ROUCHADZÉ Bull. Mus. Géorgie Tiflis **9A** 1938.

†*Daphnites* (*Phormedites*?) *stelcki* **sp. n.** p. 50 pl. ii f. 9, 10; *D. loidli canadensis* **var. nov.** p. 50 pl. ii f. 6, Trias Canada, F. H. MCLEARN Canad. Field Nat. **54** 4 1940.

†*Daraelites scotti* **nom. nov.** for *Paraprolecanites sandbergeri* Plummer & Scott non Schmidt, p. 62; *D. leonardensis* p. 63 pl. xxxiii f. 6, 7, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

†*Desmoceras*, G. SCOTT **399**, **400**.

†*Diestoceras lamonti* 104, *111* pl. vi f. 2, 3; *D. scoticum* 104, *112* pl. v f. 15, pl. vi f. 4–7 **spp. n.** Ordovician Girvan, Scotland, C. TEICHERT Trans. Geol. Soc. Glasgow **20** 1 1940.

†*Dimorphoceras edwini* **sp. n.** Meramec series [Carboniferous] Rockcastle Co. Kentucky, MILLER & FURNISH J. Paleont. Menasha, Wis. **14** 4 1940 p. 366 text-figs. 9, 10.

†*Diptychoceras nikchitchi* **sp. n.** Aptian N. Caucasus, J. ROUCHADZÉ Bull. Mus. Géorgie Tiflis **9A** 1938 p. 135 pl. i f. 3–5.

†*Distichites gethingi* **sp. n.** (Trias) Black Bear Ridge, Peace R. foothills, British Columbia, F. H. MCLEARN Canadian Field Nat. **54** 8 1940 p. 116 pl. ii f. 4.

†*Douvilleiceras subnodosocostatum hexagonum* **var. n.** Aptian N. Caucasus, J. ROUCHADZÉ Bull. Mus. Géorgie Tiflis **9A** 1938 p. 143 pl. ii f. 3.

†*Dufrenoya*, G. SCOTT **399**.

†*Dunveganoceras* **gen. nov.** [Acanthoceridae] type *Acanthoceras albertense* Warren Upper Cenomanian p. 149 pl. iii f. 4, 5; *D. poucecoupense* **sp. n.** Pouce Coupe sandstone, Pouce Coupe R. Cenomanian p. 150 pl. ii f. 1, pl. iii f. 2, 3, WARREN & STELCK Trans. roy. Soc. Canada (3) **34** 4 1940.

†*Engonoceras*, G. SCOTT **399**.

†*Eoasianites ruzencevi* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 81 pl. xii f. 1–3, pl. 13 f. 6.—†*Eoasianites grafordensis* **sp. n.** Graford limestone, N. central Texas, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 77.

†*Eothalassoceras* **gen. nov.** Thalassoceratidae type *Prothalassoceras inexpectans* Miller & Owen, Middle Pennsylvanian Coffeyville formation, Oklahoma, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 105 text-fig. 27.

†*Eothinites hessensis* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 102 pl. xi f. 3, 4.

†*Epicanites loeblichi* **sp. n.** lower part of Cassey shale (Carboniferous) S. of Ada, Pontotec Co., Oklahoma, MILLER & FURNISH J. Paleont. Menasha, Wis. **14** 4 1940 pp. 356, 372.

†*Epithalassoceras* **gen. nov.** Thalassoceratidae type *E. ruzencevi* **sp. n.** Middle Permian (wood horizon) Coahuila, Mexico, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 105 text-fig. 27.

†*Gaudryceras* (*Paragaudryceras*) *sacya* Forbes fig., P. DELEAU **92**.

†*Guhsania* **gen. n.** (allied to *Dorsetensia*) type *G. bella* **sp. n.** p. 98 pl. xxv f. 1; *G. ramata* p. 99 pl. xxii f. 6, 7 **spp. n.** Hudson Bay Mountain Jurassic Hazelton, British Columbia, F. H. MCLEARN Canad. Dept. Mines Geol. Survey Bull. **44** 1926.

†*Haplopleuroceras mundum* Buck. fig., P. DELEAU **92**.

†*Harpoceras* ? (*Arieticeras*) *del campanei* Fac. fig., P. DELEAU **92**.—*H. radians* Rein. fig., C. MAVIGLIA **276**.

†*Helictites decorus* **sp. n.** p. 49 pl. ii f. 4, 5; *H. decorus obesus* **var. n.** p. 50 pl. i f. 12; *H. decorus transitionis* **var. n.** p. 50 pl. ii f. 7, 8 Trias, Canada, F. H. MCLEARN Canad. Field Nat. **54** 4 1940.

†*Hildoceras bifrons* Brug. fig., C. MAVIGLIA **276**.

†*Himavatites canadensis* **sp. n.** (Trias) West Brown Spur, Peace R. Foothills, British Columbia, F. H. MCLEARN Canadian Field Nat. **54** 8 1940 p. 115 pl. iii f. 3

†*Isculites*, F. H. MACLEARN **264**.

†*Juvavites magnus* p. 48 pl. i f. 8; *J. biornatus* p. 48 pl. i f. 11; *J.* (*Dimorphites* ?) *pardonetiensis* p. 48 pl. i f. 13 **spp. n.** Trias, Schooler Creek formation, Canada, F. H. MCLEARN Canad. Field Nat. **54** 4 1940; *J. concretus* West Brown Spur p. 113 pl. i f. 3, 4; *J. mclayi* McLay Spur p. 113 pl. iii f. 10; *J. selwyni* Pardonet Hill p. 113 pl. ii f. 3; *J. custi* Pardonet Hill p. 113 pl. ii f. 2; *J.* (*Gonionotites*) *rarus* West Brown Spur p. 114 pl. iii f. 5; *J.* (*G.*) *fuscus* slope of West Brown Spur p. 114 pl. i f. 1; *J.* (*G.*) *belli* West Brown Spur p. 114 pl. i f. 5; *J.* (*Malayites*) *butleri* slope of West Brown Spur p. 114 pl. ii f. 5; *J.* (*M.*) *parcus* Pardonet Hill p. 115 pl. ii f. 1; **spp. n.** Trias, Peace River Foothills, British Columbia, F. H. MCLEARN Canad. Field Nat. **54** 8 1940.

†*Lillia mercati* Hauer fig., C. MAVIGLIA **276**.

†*Lobites*, F. H. MCLEARN **264**.

†*Lyrogoniatites* **gen. n.** [Goniatitidae ?] = ? *Entogonoceras* Plummer & Scott (nom. nud.), type *L. newsomi georgiensis* **var. nov.** p. 356, Floyd shale, N. of Rome, Georgia, U.S.A., new gen. includes *Goniatites newsomi* Smith, and *G. entogonus* Gabb, MILLER & FURNISH J. Paleont. Menasha, Wis. **14** 3 1940 pp. 356, 368 pl. xlviii f. 4–10 text-fig. 12.

†*Lytoceras*, G. SCOTT **399, 400**.

†*Medlicottia costellifera* p. 57 pl. vii f. 2–4, pl. viii f. 4, pl. ix f. 3; *M. girtyi* p. 59 text-fig. 14; *M. kingorum* p. 60 pl. iv f. 5–7 = *Eumedlicottia burckhardti* pars Plummer & Scott; **spp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.—*M. smithi* **nom. nov.** for *Propinacoceras insulcatum* Smith not Haniel, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 51.

†*Metalegoceras schucherti* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 100 pl. xiii f. 8–10, pl. xiv f. 7, 8.

†*Metarmenoceras* **gen. nov.** Sactoceratidae, type *M. bilaterale* **sp. n.** Dalhousie beds of Gaspé, Quebec, Lower Devonian, R. H. FLOWER J. Paleont. Menasha, Wis. **14** 5 1940 p. 445 pl. lxi f. 3, 4.

†*Mortoniceras*, G. SCOTT **399.**

†*Neocardioceras*, G. SCOTT **399.**

†*Neopronorites bakeri* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 33 pl. xi f. 7, 8.

†*Neumatoceras drummuckense* **sp. n.** Ordovician Girvan, Scotland, C. TEICHERT Trans. Geol. Soc. Glasgow **20** 1 1940 pp. 104, 108 pl. v f. 1–4, 7, 8.

†*Ormoceras schohariae* Schoharie grit Albany Co. N. York p. 443 pl. lxi f. 5, 6; *O. centrale* Hilderbergian Schoharie New York p. 445 pl. lxi f. 7, 8, **spp. nov.** Lower Devonian U.S.A., R. H. FLOWER J. Paleont. Menasha, Wis. **14** 5 1940.

†*Oxytropidoceras*, G. SCOTT **399.**

†*Paraceltites ornatus* p. 68 pl. vi f. 5, pl. xxiii f. 4, 5, 8; *P. sellardsi* p. 69 pl. xxiii f. 6, 7, **spp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

†*Parahoplites sjögreni kubanica* **var. n.** p. 163; *P. sjögrenoides* p. 164 pl. iii f. 3 text-figs. 27, 28; *P. giganteus* p. 165 pl. ii f. 5 text-fig. 29 **spp. n.** Aptian Caucasus, J. ROUCHADZÉ Bull. Mus. Géorgie Tiflis **9A** 1938.

†*Parapiloceras* N. China, T. OBATA Abstract 167 in Japan J. Geol. Geogr. **17** 1–2 1940 p. (38).

†*Perisphinctes* (*Planites*) *rutteni* pp. 88, 105 pl. v f. 2a–b, pl. vii f. 1, 2 = *P. cubanensis* mut *a* O'Connell Jurrasic Ammonite faunsa of Cuba *P.* (*Discosphinctes*) *antillarum* pp. 88, *114* pl. iii f. 7, pl. iv f. 3a–b, pl. v f. 4, 6, pl. vii f. 3 **spp. n.** Oxfordian Cuba; *P.* (*Planites*) *virgulatus* Quenst. *caribeana* **var. nov.** p. 109 pl. iii f. 1–2, pl. iv f. 5, pl. vii f. 6 Oxfordian Cuba.

†*Peritrochia dunbari* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 127 pl. xxx f. 4–9.

†*Perrinites hilli tardus* p. 154 pl. xxxiv f. 3, 4, 6, pl. xxxv f. 6, 7; *P. hilli multisectus* p. 155 pl. xxxv f. 3–5, pl. xxxviii f. 1, 2 **vars. nov.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

†Perrinitidae **fam. nov.** includes three genera viz., *Properrinites* Elias, *Perrinites* Böse, and *Hyattoceras* Gemmellaro Permian Guadalupe Mt. Texas, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 137.

†*Phylloceras doederleinianum* Cat. fig., C. MAVIGLIA **276.**—*P.*, J. ROUCHADZÉ **382.**—*P.*, G. SCOTT **399, 400.**

†*Pictonia peregrinaria* p. 82 pl. i f. 3; *P. adelpha* p. 83 pl. ii f. 2; *P. perornatula* p. 84 pl. i f. 5; *P. velata* p. 86 pl. i f. 6, pl. ii f. 1; *P. vespertina* p. 87 pl. vii f. 1; *P. gallica* p. 87 pl. vi f. 1; *P. subgallica* p. 88 pl. vi f. 2; *P. indicatoria* p. 90 pl. iv f. 1–4; *P. arietinaria* p. 92 pl. v f. 1, 1a; *P. armillata* p. 93 pl. ii f. 5, 7; *P. consobrina* p. 94 pl. iii f. 1; *P. corniculata* p. 95 pl. v, f. 2, 3; *P. peltata* p. 96 pl. vii f. 2, 4, 4a; *P. cuneata* p. 97 pl. vi f. 3, 5, 5a; *P. clavata* p. 98 pl. vi f. 4; *P.* (*Divisosphinctes* ?) *divergens* p. 99 pl. viii f. 1–4a; *P. sculpturata* p. 100 pl. viii f. 5; *P. furcillata* p. 101 pl. ix, f. 2, 3; *P. dorsata* p. 102 pl. ix f. 4–6; *P. subdorsata* p. 103 pl. ix f. 8; *P. gemmulosa* p. 103 pl. ix f. 9; *P. constricta* p. 105 pl. x f. 1–36; *P. tereticornis* p. 106 pl. x f. 4, pl. ix f. 10; *P. attenuata* p. 106 pl. x f. 6, 7, pl. xi f. 2; *P. praesaga* p. 107 pl. xi f. 1–3; *P. heterocera* p. 108 pl. xi f. 4; *P. privigna* p. 110 pl. xii f. 1, 2, pl. x f. 8; *P.* (*Involuticeras* ?) *ascita* p. 111 pl. xii f. 3, pl. xiv f. 3; *P. caliginosa* p. 111, pl. xii f. 4; *P.* (*Ringsteadia* ?) *percelata* p. 112 pl. xii f. 5; *P.* (*Ringsteadia* ?) *devia* p. 113 pl. xii f. 6; *P.* (*Ringsteadia* ?) *opaca* p. 114 pl. xiii f. 1; *P.* (*Involuticeras* ?) *intercedens* p. 116 pl. xiv f. 1, 2, 4; *P.* (*Perisphinctes* ?) (*Ringsteadia* ?) cf. *intercedens* p. 117 pl. xiv f. 4; *P.* (*Dorsoplanites* ?) *parilis* p. 117 pl. xiii f. 7, **spp. n.** Beyrichian, T. SCHNEID Palaeontographica Stuttgart **91A** 3–6 1940. [Note: the author evidently intends the names in round brackets to be possible substitutional genera and not for use subgenerically.]

†*Plummerites* **gen. n.** sole sp. *P. incertus* (Böse), MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 pp. 103, 179 pl. xxx f. 1–3.

Praestriaptychus ? sp. Triassic Tomari Japan text-figs., T. NAGAO 302.

†*Properrinites bösei denhami* **var. nov.** p. 141 pl. xxxiii f. 5 ; *P. cumminsi vicinus* **var. nov.** p. 143 pl. xxxiii f. 3, 4 ; *P. mooreae* **sp. n.** p. 145 pl. xliv f. 1, 2, Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

†*Propinacoceras knighti* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 42 pl. v f. 1–4, pl. vi f. 7 text-fig. 7.

†*Pterotoceras caurinum arctum* **var. nov.** (Trias) West Brown Spur, Peace River foothills, British Columbia, F. H. MCLEARN Canadian Field Nat. **54** 8 1940 p. 115 pl. iii f. 2.

†*Puzosia daghestanica* **sp. n.** Aptian N. Caucasus, J. ROUCHADZÉ Bull. Mus. Géorgie Tiflis **9A** 1938 p. 139 pl. iv f. 4.

†*Rhacophyllites lariensis* Domeriano fig., C. MAVIGLIA **276**.

†*Ringsteadia* (*Involuticeras* ?) *disciformis* **sp. n.** Beyrichian, T. SCHNEID Palaeontographica Stuttgart **91A** 3–6 1940 p. 114 pl. xiii f. 2–4. [*Involuticeras* is here used as a possible substitutional genus and is not intended as a subgenus by the author.]

†*Selwynoceras* **gen. nov.** [Prionotropidae] type *Prionotropis borealis* Warren lowermost ? Turonian well in town of Grimshaw near Peace River, WARREN & STELCK Trans. roy. Soc. Canada (3) **34** 4 1940 p. 151.

†*Sirenites pardoneti* **sp. n.** (Trias) Black Bear ridge, Peace R. foothills, British Columbia, F. H. MCLEARN Canadian Field Nat. **54** 8 1940 p. 115 pl. i f. 2, pl. iv f. 4.

†*Sonninia hansoni* **sp. n.** Hudson Bay Mountain Jurassic, Hayelton Group, British Columbia, F. H. MCLEARN Canad. Dept. Mines Geol. Surv. Bull. **44** 1926 [1929] p. 95 pl. xxiii f. 2, 3.

†*Sonninites silveria* p. 96 pl. xxiv f. 3 ; *S. skawahi* p. 97 pl. xxiv f. 1, 2 **spp. n.** Jurassic (Hayelton Group) British Columbia, F. H. MCLEARN Canad. Dep. Mines Geol. Surv. Bull. **44** 1926 [1929].

†*Stacheoceras rothi* p. 132 pl. xxx f. 10–12 ; *S. toumanskyae* p. 132 **spp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

†*Strigogoniatites fountaini* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 94 pl. xxi f. 3–5.

†*Styrites columbianus* p. 48 pl. i, f. 3 ; *S. ireneanus* p. 48 pl. i f. 1, 2, **spp. nov.** Trias Schooler Creek formation Canada, F. H. MCLEARN Canad. Field Nat. **54** 4 1940.

†*Synartinskia* **gen. nov.** Medlicottiidae pp. 461, 462 genotype *S. principalis* **sp. n.** Ultugan-sai ravine Aktasty R. Aktubinsk region, Sakmarian [Lower Permian] p. 462 text-fig. 1 a–c, 2, RUZHENCEV C.R. Acad. Sci. Moscow N.S. **25** 5 1939.

†*Texoceras* **gen. n.** Adrianitidae p. 110 type *Agathoceras texanum* Girty p. 111 pl. xxvi f. 1–11, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

†*Thisbites charybdis custi* p. 49 pl. i f. 6, 7 ; *T. charybdis ireneanus* p. 49 pl. i f. 9, 10, **vars. nov.** Trias Canada, F. H. MCLEARN Canad. Field Nat. **54** 4 1940.

†*Timorites schucherti* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 162 text-fig. and p. 175 text-fig. 55, 57, 58. —*T. uddeni* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 pp. 177, 178 text-fig. 59.

†*Tripteroceroides* **gen. nov.** [Cycloceridae ?] pp. 356, 358 type *T. knighti* **sp. n.** Carboniferous Mississippian Meramec Series, Rockcastle Co. Kentucky, MILLER & FURNISH J. Paleont. Menasha, Wis. **14** 3 1940.

†*Uddenites oweni* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 36 f. 5.

†*Uddenitinae* **subfam. nov.** for *Prouddenites* and *Uddenites*, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 34 f. 4.

†*Waageneroceras guadalupense thompsoni* p. 164; *W. g. smithi* p. 165 **vars. nov.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940.

†*Waagenoceras lidacense* **sp. nov.** Permian t- Koekatoe, Lidak, Sunda Islands, ROEVER & SIMONS Geol. Exped. to the Lesser Sunda Islands **1** 1940 p. 206 pl. v f. 2.

†*Xenaspis skinneri* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 76 pl. xxiv f. 1–6.

†*Xenodiscites* **gen. n.** Xenodiscidae type *X. waageni* **sp. n.** Permian Guadalupe, MILLER & FURNISH Spec. Pap. Geol. Soc. Amer. **26** 1940 p. 74.

†*Yabeites* = *Armenoceras*, T. KOBAYASHI **215.**

†*Zitteloceras costatum* **sp. n.** Ordovician Girvan Scotland, C. TEICHERT Trans. Geol. Soc. Glasgow **20** 1940 pp. 104, *106* pl. v f. 5, 6, 9, 10, 11, pl. vi f. 1, 8, 9, 10.

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? *Pseudomelania pupoides* **sp. n.** Pebble Sand, Swindon, W. S. ARKELL Proc. Geol. Ass. London **51** 4 1940 p. 394 text-fig. 55.

†*Spiromphalus* **gen. nov.** type *S. yabéi* **sp. n.** Permian Japan, I. HAYASAKA Mem. Fac. Sci. Agric. Taihoku Imp. Univ. **22** 19–23.

Xenohelix saxonica Häntz 1935, W. HANTZSCHEL **150.**

X. CRUSTACEA

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W. L. SCLATER, M.A.

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†*Coryellites* **gen n.**, KELLETT J. Paleont. **10** 1936 p. 769.

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†*Cytheridea euscarca, C. calyptroides* **spp. n.** Portlandian Swindon, ANDERSON Proc. Geol. Assoc. **51** p. 376 figs.—*C.* (*Haplocytheridea*) *bastropensis* **nom. n.** pro *C. subovata* Sutton & Williams preocc., SUTTON & WILLIAMS J. Paleont. **14** p. 163.

†*Dilobella simplex* **sp. n.** Ordov. Wis., KAY J. Paleont. **14** p. 257 figs.

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†*Kloedenia salopensis* p. 394, *K. obesa* p. 395 **spp. n.** figs. Silurian Shropshire, HARPER Ann. Mag. N.H. (11) **5.**

†*Krausella curtispina* **sp. n.** Ordov. Iowa, KAY J. Paleont. **14** p. 267 figs.

†*Leperditia littoralis* p. 389, *L. arenacea* p. 390 **spp. n.** figs. Silurian Shropshire, HARPER Ann. Mag. N.H. (11) **5.**

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†*Maratia* **gen. n.** (Primitiidae) for genotype *M. mara* **sp. n.** Ordov. Ontario, KAY J. Paleont. **14** p. 258 figs.

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XI. TRILOBITA

ARRANGED BY

C. J. STUBBLEFIELD, Ph.D.

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XII. ARACHNIDA

TO WHICH ARE ADDED

ARTHROCEPHALA, MEROSTOMATA, PANTOPODA, TARDIGRADA, PENTASTOMIDA, MYRIOPODA, AND PROTOTRACHEATA.

ARRANGED BY

R. J. WHITTICK, B.Sc.

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†*Aglaspella* **gen. n.** [Aglaspidae] p. 16 for type *A. granulifera* **sp. n.** p. 17 pl., *A. eatoni* p. 19 pl., Cambrian, U.S.A., RAASCH Spec. Pap. Geol. Soc. Amer. **19**.

†*Aglaspis*, emend. p. 5, *A. spinifer* p. 10 pls., *A. simplex* p. 14 pl., *A. dorsetensis*, *A. franconensis* p. 16 pl., **spp. n.** *A. barrandei* p. 6 pls., Cambrian U.S.A., RAASCH Spec. Pap. Geol. Soc. Amer. **19**.

†*Aglaspoides* **gen. n.** [Aglaspidae] for type *A. sculptilis* **sp. n.** p. 26 pl.; *A. semicircularis* **sp. n.** p. 29 pl., Cambrian U.S.A., RAASCH Spec. Pap. Geol. Soc. Amer. **19**.

†*Beckwithia typa* p. 46 pl., ? *B. major* p. 47 pl., RAASCH **139**.

†Beckwithiidae **fam. n.** p. 46, RAASCH Spec. Pap. Geol. Soc. Amer. **19**.

†*Chraspedops* **gen. n.** [Aglaspidae] for type *C. modesta* **sp. n.** p. 38 pls.; *C. fragilis* **sp. n.** p. 41 pl. Cambrian U.S.A., RAASCH Spec. Pap. Geol. Soc. Amer. **19**.

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†*Setaspis* **gen. n.** [Aglaspidae] for *S. spinulosus* p. 43 pl., *S. regularis* p. 44 pl. **spp. n.** Cambrian U.S.A., RAASCH Spec. Pap. Geol. Soc. Amer. **19.**

†*Strabops thacheri* p. 45 pl., RAASCH **139.**

†*U-arthrus* **gen. n.** [Aglaspidae] for *U. instabilis* **sp. n.** Cambrian, U.S.A., p. 30 pls., RAASCH Spec. Pap. Geol. Soc. Amer. **19.**

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†*Artiodactylus sinclairi*, CASTER **24.**

†*Micrichnus scotti*, CASTER **24.**

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Masthophora longiceps **sp. n.** Brazil p. 57 figs., MELLO-LEITÃO Rev. chil. Hist. nat. **43.**

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Meta melanicruciata **sp. n.** Japan p. 7 figs., *M. yunohamaensis* p. 9 fig., Saitô Res. Bull. Saito Mus. Sendai **18.**

Neoscona albobitriangulosa p. 341 figs. *N. platyparomma* p. 343 figs. **spp. n.** E. Africa, Caporiacco Miss. Biol. Paese Borana **3.**

Nephila sp. figs., Coleman **48.**

Pachygnatha rotunda **sp. n.** Japan p. 61 figs., Saitô Res. Bull. Saito Mus. Sendai **18.**

Tetragnatha marquesiana **sp. n.** Marquesas Is. p. 58 figs., Berland Bull. Bishop Mus. Honolulu **142.**—*T. japonica* p. 57 fig., *T. praedonia* p. 58 fig., *T. squamata* p. 59 fig., Saitô **149.**

Uahuka **gen. n.** for type *U. spinifrons* **sp. n.** p. 53 figs.; *U. affinis* **sp. n.** p. 55 figs., Marquesas Is., Berland Bull. Bishop Mus. Honolulu **142.**

Uapou **gen. n.** for type *U. maculata* **sp. n.** Marquesas Is. p. 48 figs., Berland Bull. Bishop Mus. Honolulu **142.**

Wixia minuta **sp. n.** Japan p. 13 figs., Saitô Res. Bull. Saito Mus. Sendai **18.**

Mimetidae.

Mimetus haynesi **sp. n.** Texas p. 333 figs., Gertsch & Mulaik Bull. Amer. Mus. nat. Hist. **77.**

Zoropsidae.

Zorocrates guerrerensis **sp. n.** Mexico p. 2 figs., Gertsch & Davis Amer. Mus. Nov. **1069.**

Ctenidae.

Ctenus xinguensis **sp. n.** Brazil p. 29, Mello-Leitão Ann. Acad. Sci. Bras. Rio. **12.**

Enoploctenus morbidus **sp. n.** Matto Grosso p. 287 figs., Mello-Leitão Bol. biol. S. Paulo N.S. **4.**

Xenoctenus pampeanus p. 39 figs., *X. patagonicus* p. 40 fig. **spp. n.** Argentina, Mello-Leitão Rev. Mus. La Plata (Zool.) **2.**

Drassidae.

Key to genera, Mello-Leitão **120.**

Callilepis gosoga **sp. n.** U.S.A. p. 10 figs., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Drassyllus coahuilanus **sp. n.** Mexico p. 7 fig., Gertsch & Davis Amer. Mus. Nov. **1069.**—*D. nannellus* p. 11 fig., *D. lasalus*, *D. creolus* p. 13 figs., *D. ellipes* p. 14 fig., *D. hubbelli*, *D. eremophilus* p. 15 figs., *D. seminolus* p. 16 fig., *D. inanus*, *D. tonaquintus* p. 17 figs., **spp. n.** U.S.A., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Echemus argentinus p. 44 fig., *E. pampeanus* p. 45 fig. **spp. n.** Argentina, Mello-Leitão Rev. Mus. La Plata (Zool.) **2.**—*E. inermis* **sp. n.** Brazil p. 288 fig., Mello-Leitão Bol. biol. S. Paulo N.S. **4.**

Gnaphosa sandersi **sp. n.** Mexico p. 8 fig., Gertsch & Davis Amer. Mus. Nov. **1069.**—*G. compirensis* p. 5 figs., Saitô **149.**

Haplodrassus dystactus **sp. n.** U.S.A. p. 8 figs., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Herpyllus coahuilanus **sp. n.** Mexico p. 5 figs., Gertsch & Davis Amer. Mus. Nov. **1069.**—*H. australis* p. 46 figs., Mello-Leitão **120.**

Laronia reynosana **sp. n.** Mexico p. 9 fig., Gertsch & Davis Amer. Mus. Nov. **1069.**

Leptodrassus memorialis **sp. n.** Ukraine p. 355 figs., Spassky Folia zool. hydrobiol. Riga **10.**

Liodrassus metalleus p. 5 fig., *L. petersoni* p. 7 fig., **spp. n.** U.S.A., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Litopyllus liber p. 3 figs., *L. paludis* p. 4 figs. **spp. n.** U.S.A., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Megamyrmecium cambridgei **sp. n.** Mexico p. 11 figs., Gertsch & Davis Amer. Mus. Nov. **1069.**

Moreno **gen. n.** for type *M. morenoi* **sp. n.** Buenos Aires p. 47 figs., Mello-Leitão Rev. Mus. La Plata (Zool.) **2.**

Nomisia poecilipes **sp. n.** E. Africa p. 351 figs., Caporiacco Miss. Biol. Paese Borana **3.**

Orodrassus orites **sp. n.** U.S.A. p. 10 fig., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Poecilochroa josephus **sp. n.** U.S.A. p. 4 fig., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Sostogeus **gen. n.** for type *S. zygethus* **sp. n.** U.S.A. p. 1 figs., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Talanites strandi **sp. n.** Ukraine p. 353 fig., Spassky Folia zool. hydrobiol. Riga **10.**

Zelotes acapulcoanus **sp. n.** Mexico p. 8 fig., Gertsch & Davis Amer. Mus. Nov. **1069.**—*Z. nannus* **sp. n.** U.S.A. p. 18 figs., Chamberlin & Gertsch Amer. Mus. Nov. **1068.**

Sparassidae.

Eusparassus concolor **sp. n.** E. Africa p. 353, Caporiacco Miss. Biol. Paese Borana **3.**

Nonianus argentinus **sp. n.** Argentina p. 43 figs., Mello-Leitão Rev. Mus. La Plata (Zool.) **2.**

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Heriaeus mellottéei p. 84 fig., Saitô **149.**

Misumena oblonga **sp. n.** Japan p. 82 figs., *M. munitissima* p. 80 fig., Saitô Res. Bull. Saito Mus. Sendai **18.**—*M. vatia* p. 192 figs., Chickering **46.**

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Misumenops obesulus **sp. n.** Mexico p. 3 figs., Gertsch & Davis Amer. Mus. Nov. **1069.**—*M. delmasi* p. 44 figs., Berland **15.**—*M.* key to spp. p. 195, *M. asperatus* p. 196 figs., *M. oblongus* p. 197 figs., Chickering **46.**

Odo limitatus **sp. n.** Mexico p. 1 fig., Gertsch & Davis Amer. Mus. Nov. **1069.**

Oxyptila key to spp., *O. americana* p. 199 figs., *O. conspurcata* p. 201 figs., Chickering **46.**

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Tmarus angulatus p. 201 figs., Chickering **46.**

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Agroeca flavipes **sp. n.** Japan p. 34 figs., SAITÔ Res. Bull. Saito Mus. Sendai **18.**—*A.* key to spp. p. 54, *A. ornata*, *A. pratensis* p. 56 figs., CHICKERING **45.**

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Apochinomma bilineatum **sp. n.** Brazil p. 175, MELLO-LEITÃO Rev. chil. Hist. nat. **43.**—*A. formicoides* **sp. n.** Matto Grosso p. 289 figs., MELLO-LEITÃO Bol. biol. S. Paulo N.S. **4.**

Aysha gracilis p. 53 figs., CHICKERING **45.**

Brachyphaea fagei **sp. n.** E. Africa p. 356 fig., CAPORIACCO Miss. Biol. Paese Borana **3.**

Castianeira stupkai **sp. n.** Tennessee p. 137 fig., BARROWS Ohio J. Sci. **40.**—*C.* key to spp., *C. cingulata* p. 57 figs., *C. descripta* p. 59 figs., *C. longipalpus* p. 60 figs., CHICKERING **45.**

Ceto costulata p. 52 fig., *C. hyltonae* p. 53 figs. **spp. n.** Argentina, MELLO-LEITÃO Rev. Mus. La Plata (Zool.) **2.**

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Corinna annamae **sp. n.** Mexico p. 12 figs., GERTSCH & DAVIS Amer. Mus. Nov. **1069.**—*C. travassosi* **sp. n.** Matto Grosso p. 290 figs., MELLO-LEITÃO Bol. biol. S. Paulo N.S. **4.**—*C. vertebrata* p. 54 fig., MELLO-LEITÃO **120.**

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Micaria melanopa fig., *M. bonita* **spp. n.** Mexico p. 14, GERTSCH & DAVIS Amer. Mus. Nov. **1069.**—*M. montana* p. 76 figs., CHICKERING **45.**

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Piabuna reclusa **sp. n.** Mexico p. 20 fig., GERTSCH & DAVIS Amer. Mus. Nov. **1069.**

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Syrisca nebulosa **sp. n.** Mexico p. 15 fig., GERTSCH & DAVIS Amer. Mus. Nov. **1069.**

Teudis bucolicus p. 94 figs., *T. cambridgei* p. 97 figs., *T. donaldi* p. 100 figs., *T. juradoi* p. 103 figs., *T. lectus* p. 105 figs., *T. reductus* p. 108 figs., **spp. n.** Panama, CHICKERING Trans. Amer. micr. Soc. Menasha **59.**—*T. erythrostomus* **sp. n.** S. Paulo p. 292, MELLO-LEITÃO Bol. biol. S. Paulo N.S. **4.**

Tomopisthes lebruni p. 61 figs., MELLO-LEITÃO **120.**

Trachelas tranquillus p. 82 figs., CHICKERING **45.**

Trachelopachys gulosus **sp. n.** Argentina p. 51 fig., MELLO-LEITÃO Rev. Mus. La Plata (Zool.) **2.**

Wulfila arraijanica p. 109 fig., *W. innoxia* p. 110 figs., *W. maculata* p. 112 figs., *W. sublesta* p. 118 figs., *W. tantilla* p. 119 figs., *W. tenella* p. 120 figs., **spp. n.** Panama, *W.* (*Cragus*) *mandibulata*, *W. modesta* p. 114 figs., *W. pulverulenta* p. 116 figs., CHICKERING Trans. Amer. micr. Soc. Menasha **59.**

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Amycus tristis **sp. n.** Brazil p. 30, MELLO-LEITÃO Ann. Acad. Bras. Sci. Rio **12.**

Athamas whitmeei p. 47 figs., BERLAND **15.**

Avitus anumbi, **sp. n.** Brazil p. 31, MELLO-LEITÃO Ann. Acad. Bras. Sci. Rio **12.**

Ballus japonicus **sp. n.** Japan p. 36 figs., SAITÔ Res. Bull. Saito Mus. Sendai **18.**

Carrhotus detritus p. 40 fig., SAITÔ **149.**

Cerionesta aurantia, **sp. n.** Brazil p. 32, MELLO-LEITÃO Ann. Acad. Bras. Sci. Rio **12.**

Chalcoscirtus fulvus **sp. n.** Japan p. 37 figs., SAITÔ Res. Bull. Saito Mus. Sendai **18.**

Dendryphantes madrynensis **sp. n.** p. 56 figs. Argentina, MELLO-LEITÃO Rev. Mus. La Plata (Zool.) **2.**

Euophrys A-notata p. 55 fig., *E. tristis* p. 56 fig., **spp. n.** Argentina, MELLO-LEITÃO Rev. Mus. La Plata (Zool.) **2.**

Hyllothyene **gen. n.** for *H. univittata* **sp. n.** E. Africa p. 380 fig., CAPORIACCO Miss. Biol. Paese Borana **3.**

Iotus abnormis p. 43 fig., *I. difficilis* p. 44 fig., SAITÔ **149.**

Maevia nigrifrontis **sp. n.** Japan p. 41 figs., SAITÔ Res. Bull. Saito Mus. Sendai **18.**

Menemerus tetralineatus **sp. n.** E. Africa p. 370 fig., CAPORIACCO Miss. Biol. Paese Borana **3.**

Paramodunda striatipes **sp. n.** E. Africa p. 371 fig., CAPORIACCO Miss. Biol. Paese Borana **3.**

Plexippus annulipedis **sp. n.** Japan p. 40 figs., SAITÔ Res. Bull. Saito Mus. Sendai **18.**

Pseudicius lecontei **sp. n.** Tennessee, Ohio p. 138 fig., BARROWS Ohio J. Sci. **40.**

Rhene parvula **sp. n.** E. Africa p. 373 fig., CAPORIACCO Miss. Biol. Paese Borana **3.**

Sarinda mulata **sp. n.** S. Paulo p. 290 figs., MELLO-LEITÃO Bol. biol. S. Paulo N.S. **4.**

Sitticus bilineatus **sp. n.** Japan p. 42 figs., SAITÔ Res. Bull. Saito Mus. Sendai **18.**

Synemosyna magniscuti **sp. n.** S. Paulo p. 292 figs., MELLO-LEITÃO Bol. biol. S. Paulo N.S. **4.**

Thorellia ensifera p. 46 figs., BERLAND **15.**

Thyene strandi p. 376 fig., *T. splendida* p. 378 fig., **spp. n.** E. Africa, CAPORIACCO Miss. Biol. Paese Borana **3.**

ANTHRACOMARTI.

[Vacant.]

ACARI.

ACARI

[with the exception of Hydrachnoidea and Ixodoidea].

ANDRÉ **4**; Distribution in marine zones, Halacaridae, ANDRÉ **1.**

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Acarelliptus **gen. n.** [Phyllocoptinae] p. 166 for type *A. cocciformis* **sp. n.** on oak, U.S.A., p. 167 figs., KEIFER Bull. Dept. Agric. Cal. **29.**

Acaricalus **gen. n.** [Phyllocoptinae] for type *A. segundus* **sp. n.** on oak, California, p. 164 figs., KEIFER Bull. Dept. Agric. Cal. **29.**

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Belba longipes, *B. gratiosa* **spp. n.** Balkans p. 217, WILLMANN Zool. Anz. Leipzig **129.**

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Caenothrombium miniatum p. 156 figs., WOMERSLEY **197.**

Calacarus **gen. n.** [Phyllocoptinae] for type *C. pulviferus* **sp. n.** on oak, California, p. 163 figs., KEIFER Bull. Dept. Agric. Cal. **29.**

Calepitrimerus anatis p. 31 figs. on *Amelanchier*, *C. muesebecki* p. 113 figs. on avocado, *C. darrowi* p. 165 figs. on *Vaccinium*, **spp. n.** U.S.A., KEIFER Bull. Dept. Agric. Cal. **29.**

Caloglyphus julidicolus **sp. n.** on millipedes, S. Africa p. 227 figs., LAWRENCE Trans. roy. Soc. S. Afr. **27.**—*C. julidicolus* p. 173, LAWRENCE **101.**

Calothrombium paolii herzegowinensis **subsp. n.** Balkans p. 216, WILLMANN Zool. Anz. Leipzig **129.**

Caroloptes **gen. n.** [Phyllocoptinae] for type *P. fagivagrans* **sp. n.** on beech, U.S.A., p. 166 figs., KEIFER Bull. Dept. Agric. Cal. **29.**

Carpoglyphus lactis, deutonymph, p. 271, OBOUSSIER **126.**—p. 197 figs., VITZTHUM **191.**

Cercomegistus simplicior **sp. n.** Marquesas Is. p. 76 figs., VITZTHUM Bull. Bishop Mus. Honolulu **142.**

Chamobates petrinjensis **sp. n.** Balkans p. 218, WILLMANN Zool. Anz. Leipzig **129.**

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Crossothrombium **gen. n.** [Trombidiidae] for type *C. parkhousei* **sp. n.** S. Australia p. 152 figs., WOMERSLEY Trans. roy Soc. S. Austr. **63.**

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PROTOTRACHEATA.

[Vacant.]

XIII. INSECTA

BY

THE IMPERIAL INSTITUTE OF ENTOMOLOGY

FOREWORD

THE attention of readers is directed to the fact that, beginning with Vol. **74** (1937), the systematic part of the Record is reserved only for information of purely taxonomic value. References to data on morphology, physiology, bionomics, ecology, distribution and other general problems will not be found as before under their respective groups in the systematic part, but must be looked for in the Subject Index, where they are arranged by orders under each heading. The classification of headings in the Subject Index has been revised in order to make the information more complete and readily available. It is hoped that this change will render the Record of more value for entomologists working on general problems, without affecting its importance for taxonomists.

Entomological papers written entirely from an economic point of view are omitted, but abstracts of these will be found in the *Review of Applied Entomology*.

Very brief papers, usually those dealing with a single species, are noticed either in the Subject Index or in the systematic part, but do not appear in the list of titles.

The writers of systematic papers are requested to mark new synonyms with the words (*n. syn.*), as otherwise it is impossible to ensure that they will be correctly recorded.

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Plecoptera: BARNARD, S. Africa, **83**.

Ephemeroptera: BARNARD, S. Africa, **83**.

Odonata: BARNARD, S. Africa, **83**; COWLEY, Senegal, Fr. Guinea, **363**; NIELSEN, Borana, S. Abyssinia, **1178**.

Orthoptera: LA GRECA, Mantidae, Borana, S. Abyssinia, **930**; SALFI, Borana, S. Abyssinia, **1380**.

MADAGASCAR AND MASCARENE ISLANDS.

MADAGASCAR.

Coleoptera: BREUNING, new Lamiidae, **201**; GUIGNOT, *Derovatellus* sp. n. (Dytisc.), **644**; JANSSENS, *Proagoderus* (Coprid.), problem of Lemuria, **817**; PIC, new Cleridae, **1256**; SPAETH, *Hoplionota* sp. n. (Cassid.), **1501**; VILLIERS, *Anomoderus* (Ceramb.), key and spp. n., **1696**.—**Lepidoptera**: TALBOT, *Amauris nossima* f. n. (Danaid.), **1560**.—**Orthoptera**: REHN, *Hovaspectrum* gen. et sp. n. (Phasm.), **1329**.

COMORO IS.

Lepidoptera: TALBOT, *Amauris nossima* and *ochlea* ff. n. (Danaid.), **1560**.

MAURITIUS.

Coleoptera: ARROW, *Vinsonella* gen. et sp. n. (Lucan.), **49**.—**Hemiptera**: MAMET, new Coccids, **1051**; TAKAHASHI, new Aleurodidae, **1550**.

SEYCHELLES.

Hemiptera: VESEY-FITZGERALD, Coccidae, **1689**.

INDO-AUSTRALIAN REGION, collectively.

Diptera: KRÖBER, Conopids, revision, **917**.

ASIA, TROPICAL AND EASTERN.

Insecta: NAGAOKA, Mt. Myōkō, W. Korea, **1158**; TAKAHASHI, Alpine insects, Formosa, **1548**; WU, China, catalogue, **1780**.

Coleoptera: ANDREWES, *Oodes* (Carab.), key, Indian spp., **36**; BOLLOW, Parnidae, Burma, **178**; CHÔ, *Evodinus* (Ceramb.), Korea, Manchukuo, **300**; CHÛJÔ, Ciidae, Japan, catalogue, **305**; Chrysomelids, Sikoku I., Japan, **306**; FLEUTIAUX, Agriotinae (Elat.), Fr. Indo-China, revision, **526**; GRESSITT, Longicorns, Kwangtung Prov., S. China, suppl. (Ceramb.), **628**; Longicorns, Hainan Island, **630**; JANSSENS, *Proagoderus* (Coprid.), problem of Lemuria, **817**; KASZAB, Platyscelini (Tenebr.), monograph, **850**; KOBAYASHI, Minakami-mura, **891**; KÔNO, Meloidae, Manchukuo, **903**; LESNE, Sphaeriidae, Bostrychidae, Burma, **969**; MARSHALL, *Calandra* (Curc.), India, revision, **1059**; MATSUSHITA, Cerambycids, Japan, **1071**; MATSUSHITA & TAMANUKI, Lepturinae (Ceramb.), Japan, **1072**; MURAYAMA, Scarabaeids, Tsushima Is., **1149**; Scarabaeids, Korea, **1150**; OCHS, Gyrinidae, Burma, **1192**; PIC, *Falsoorthrius* gen. et sp. n. (Clerid.), Siam, **1256**; PLAVILSTSHIKOV, *Molorchus* spp. (Ceramb.), Indo-Malaya, key, **1268**; TAUTI, Scarabaeidae, Gihu district, **1568**.

Hymenoptera: MAA, *Xylocopa*, revision of subgenn. *Zonohirsuta*, *Platynopoda*, *Nyctomelitta* (Apid.), **1014**; NIXON, *Telenomus* (Proct.), key to Asiatic spp., **1181**; TAKEUCHI, Symphyta (Tenthred.), Japan, **1557**; UCHIDA, Ichneumonids, Japanese types, **1644**, **1645**; Tylocomnini (Ichn.), Japan, revision, **1648**; YASUMATSU, *Nitela*, *Rhinonitela* (Larrid.), Japan, **1787**; *Megachile* (Apid.), Korea, Manchuria, additions, **1791**; Pompilidae, Botel Tobago I., **1793**; Inner Mongolia, N. China, **1794**; Botel-Tobago I., **1795**.

Lepidoptera: CARROTT, butterflies, Shan States, **268**; CORBET, Rhopalocera, Hong Kong, list, **345**; *Chliaria* (Lycaen.), Malaya, revision, **347**; *Lo-*

gania (Lycaen.), Malaya, revision, **348**; *Tajuria* (Lycaen.), Malaya, revision, **349**; Poritiinae (Lycaen.), Malaya, revision, **350**; KAJI, Rhopalocera, Rokko Mts., list, **844**; SCOTT, Sphingidae, Darjeeling and Sikkim, **1433**; SONAN, butterflies, Botel Tobago I., **1497**; TYTLER, butterflies, chiefly Burma, **1642**; WYNTER-BLYTH, butterflies, Simla Hills, **1783**.

Trichoptera: TSUDA, Japan, keys, **1631–1633**.

Neuroptera: BANKS, Szechwan, China, Neuropteroid orders, **77**.

Diptera: ALEXANDER, Tipulidae, China, **23**; CHANG, Anophelines, Yunnan, **284**; CHENG, Syrphidae, China, preliminary list, **289**; ENGEL, Bombylidae, Asilidae, China, list, **478**; KÔNO & TAKAHASI, Tabanidae, Korea, **905**; *Culicoides* (Ceratopog.), Sakhalin, Hokkaido, revision, **906**; Simuliids, Sakhalin, Hokkaido, revision, **907**; Tabanids, Sakhalin, Hokkaido, **908**; MENON, *Mansonia*, key to 4th instar larvae of subgen. *Mansonioides* (Culic.), India, **1101**; OKADA, Mycetophilidae, Honshu, **1199**; ÔUCHI, Pangoniinae (Tabanid.), Conopidae, Bibionidae, E. and N. China, Manchuria, N. Korea, key and list, Stratiomyiidae, E. Asia, **1212**; SAITO, Tipulidae, Iwaté-ken, Japan, **1378**; SENIOR-WHITE, AUBERTIN & SMART, Calliphoridae, India and Oriental Region, **1445**; SHILLITO, *Cyrtodiopsis* (Diopsid.), revision, **1455**; TAKAHASI, Simuliids, Manchukuo, **1555**; TOKUNAGA, Ceratopogonids, Japan and neighbouring countries, **1604, 1605**; TOWNSEND, corrections to Senior-White, Aubertin & Smart's Calliphoridae, India, J. N. York ent. Soc. **48** pp. 397–400.

Hemiptera: CHINA, Reduviidae, revision of subfamm., genn., China, **299**; FRASER, Cicadidae, N. Bengal and Sikkim, **551**; KATO, Cicadidae, Japan, bibliography, **855**; new Membracidae, Japan, **856**; Cicadidae, Chinese, in Mus. Heude Collection, **858**; MATSUMURA, Dictyopharids, Manchukuo and neighbouring countries, **1067**; Cercopidae, Japan, Korea, Manchukuo, Formosa, list, **1066, 1069**; Homoptera, Kotosho, Botel Tobago I., **1068**; MILLER, Reduviidae, Malaya, **1115**; TAKAHASHI, Aleurodids, Japan, **1553**; ULLAH, Aphids, Delhi, **1654**; YAMAYA, Cicadidae, Aomori Prefecture, **1785**.

Thysanoptera: RAMAKRISHNA AYYAR & MARGABANDHU, India, catalogue, **1308**.

Plecoptera: WU, China, 1st and 2nd suppls., **1781**.

Odonata: ASAHINA, Formosa, new records, **50**; FRASER, Darjeeling, Jalpaiguri, Sikkim, **550**; LIEFTINCK, Ceylon, **979**; *Copera*, revision, **980**.

Orthoptera: CHANG, Podismae (Acrid.), China, revision, **283**; TINKHAM, Cyrtacanthacrinae, S. China, revision, **1601**.

ASIATIC ARCHIPELAGO.

Insecta: KALIS, Bonthain, Celebes, collecting trip, **846**.

Coleoptera: BREUNING, new Lamiidae, Sunda Is., Philippines, Celebes, **201**; CHAPIN, new Coccinellidae, Sumatra, Philippines, **285**; FLEUTIAUX, new Elaterids, Philippines, **527**; GRESSITT, *Nupserha* sp. n. (Ceramb.), Philippines, **629**; KALIS, Saleyer I., Flores Sea, collecting trip, **845**; LABOISSIÈRE, new Galerucidae, Philippines, Java, **927**; LHOSTE, Scydmaenids, Borneo, **973**; SCHEDL, *Xyleborus* sp. n. (Scolyt.), Philippines, **1406**; SPAETH, *Cassida* sp. n., Borneo, **1502**.

Hymenoptera: BEQUAERT, *Calligaster* sp. n. (Vesp.), Philippines, **124**; FULLAWAY, *Ootetrastichus* sp. n. (Euloph.), Philippines, **574**.

Lepidoptera: HOBBY, Rhopalocera, Sarawak, **742**; KALIS, Saleyer I., Flores Sea, collecting trip, **845**; TALBOT, *Ideopsis* (Danaid.), revision, **1559**.

Thysanoptera: PRIESNER, spp. n., Sumatra, Luzon, **1282**; *Androthrips* sp. n., Philippines, **1283**.

Ephemeroptera: ULMER, Sunda Is., revision (contd.), **1656**.

Odonata: LIEFTINCK, *Copera*, revision, **980, 981**.

Orthoptera: CHOPARD, Gryllacridae, Gryllidae, Borneo, **304**.

PAPUAN SUB-REGION.

BISMARCK ARCHIPELAGO.

Coleoptera: BREUNING, new Lamiidae, New Britain, **201**.—**Diptera**: MAL-

LOCH, Ortalidae, Admiralty Is., **1049.**—**Thysanoptera :** MOULTON, *Monothrips* gen. et sp. n., *Gynaikothrips* sp. n., New Britain, **1137.**

MOLUCCAS.

Coleoptera : BREUNING, *Neosybra* sp. n., *Aulaconotopsis* gen. et sp. n., Ternate I., *Pothyne* sp. n., Saparua I. (Lamiid.), **201** ; GRESSITT, *Elacomia* sp. n. (Cerambyc.), Ceram, **629** ; ZIMMERMAN, *Viticis* sp. n. (Curc.), Amboina, **1819.**—**Thysanoptera :** PRIESNER, *Diaphorothrips* sp. n., Riouw Arch., **1283.**

NEW GUINEA.

Insecta : TOXOPEUS, expedition to N. Guinea, **1619.**—**Coleoptera :** ARROW, *Stratiopisthius* sp. n. (Brenth.), **47** ; BREUNING, new Lamiidae, **201** ; FLEUTIAUX, *Anthracalaus* sp. n. (Elat.), **527** ; GRESSITT, new Cerambycids, **629** ; LABOISSIÈRE, *Anoides* sp. n. (Galer.), **927** ; SCHEDL, Scolytids, **1406.** — **Hymenoptera :** DONISTHORPE, *Liomyrmex* sp. n. (Formic.), **421** ; *Lordomyrma* sp. n. (Formic.), **422** ; *Odontomachus* (Formic.), new sp. and varr., **426** ; TURNER, new Thynnids, **1641.**—**Lepidoptera :** TALBOT, *Ideopsis* (Danaid.), revision, **1559.**—**Diptera :** KRÖBER, *Stylogaster* sp. n. (Conop.), **917** ; MALLOCH, new Sapromyzids, **1050.**—**Thysanoptera :** MOULTON, genn. et spp. n., **1137.**—**Orthoptera :** HINTON, *Bufonides* (Tetrig.), revision, **737.**

SOLOMON Is.

Coleoptera : KORSCHEFSKY, *Coelophora* sp. n. (Coccin.), **912.**—**Diptera :** MALLOCH, Ortalidae, Phytalmidae, **1046** ; Sapromyzidae, keys, **1048.**—**Hemiptera :** VAN DUZEE, new spp., **1673.**

AUSTRALIA.

Coleoptera : BÄNNINGER, Pamborini, Ozaenini, Scaritini (Carab.), keys, **78** ; BLAIR, new Ciids and key to *Cis*, **151** ; BREUNING, new Lamiidae, **201**; BROOKS, Parnidae, N. Queensland, **212** ; FLEUTIAUX, *Anthracalaus* sp. n. (Elat.), **527** ; MCKEOWN, new Longicorns, **1033.**

Hymenoptera : COMPERE, *Metaphycus* sp. n. (Encyrt.), **333** ; DONISTHORPE, *Orectognathus* sp. n. (Formic.), **421** ; GIRAULT, new Encyrtids, **609** ; TURNER, new fossorial Hym., **1641.**

Lepidoptera : TURNER, Arctiidae, revision, **1637** ; Gracilariidae, revision, **1638.**

Neuroptera : KIMMINS, *Stilbopteryx*, revision, **872** ; genn. et spp. n., **873** ; Stenosmylinae, Kalosmylinae, revision, **874.**

Diptera : HARDY, Calliphoridae, Australia, revision, **664** ; JOHNSTON & TIEGS, *Helicobia*, *Sarcophaga* spp. n., **832.**

Hemiptera : ESAKI, *Microvelia* sp. n., **481** ; HARRIS, *Alloeorrhynchus* spp. n. (Nabid.), **674** ; HUNGERFORD, *Enithares* sp. n. (Notonect.), **782** ; TAKAHASHI, *Aleuroplatus* sp. n. (Aleur.), **1554.**

Mallophaga : PLOMLEY, *Heterodoxus* sp. n., **1270** ; THOMPSON, *Pectinopygus bassani* subsp. n., Tasmania, **1585** ; *Halipeurus* sp. n., **1586.**

Embioptera : DAVIS, **388.**

Orthoptera : SJÖSTEDT, Cyrtacanthacridinae, revision, **1468** ; *Rectitropis* sp. n., *Desmatoptera* sp. n. (Acrid.), K. Svenska VetenskAkad. Handl. (3) **15** 1935 no. 2 pp. 54, 129.

Collembola : WOMERSLEY, *Ceratrimeria* sp. n., Tasmania, **1776.**

AMERICA, collectively.

Hymenoptera : BIERIG, *Cyphomyrmex* (Formic.), key, **1729.**—**Lepidoptera :** BYTINSKI - SALZ, *Platysamia* spp. (Saturn.), **245**; FOX, Ithomiinae (Nymph.), generic revision, **539.**—**Diptera :** JAMES, *Cyphomyia* (Strat.) and related genn., revision, **811** ; VARGAS, key to genn. of adult mosquitos, **1676.**

NORTH AMERICA.

Insecta : ALEXANDER, Presidential Range, New Hampshire, **16** ; WATERSTON, Bermuda, additions to records 1928–40, **1726.**

Coleoptera : BLACKMAN, *Renocis* (Scolyt.), revision, **149** ; VON BLOEKER, Scarabaeids, Channel Is., annotated list, **160** ; BOYER, *Hoplia* (Melol.), revision, **191** ; BROWN, distribution of some European spp., **214** ; CAZIER, Phileurini (Dynast.), review, **271** ; *Polyphylla* (Melol.), **272** ; DARLINGTON, *Stomis*

pumicatus (Carab.), new to fauna, Canad. Ent. **72** p. 252; GREEN, *Cantharis*, revision, **624**; LEECH, *Laccornis* (Dytisc.), key, **955**; LINSLEY, Necydalini (Ceramb.), revision, **986**; *Tragidion* (Ceramb.), key, California, **989**; RITCHER, *Lachnosterna* (*Phyllophaga*) (Melol.), Kentucky, **1347**; ROSS, *Dendrophilus* (Hister.), prelim. review, **1359**; SANDERSON, Cyclocephalini (Dynast.), Arkansas spp., **1384**; SAYLOR, *Cotalpa*, *Paracotalpa* (Rutel.), revision, **1400**; *Phyllophaga* subgen. *Listrochelus* (Melolon.), revision, **1401**.

Hymenoptera: BEQUAERT, *Monobia*, *Montezumia*, *Pachymenes* (Vesp.), Neotropical elements in Nearctic fauna, **118**; *Polistes* (Vesp.), **123**; BOHART, *Pterocheilus* (Vesp.), revision, **169**; *Odynerus* (*Leptochilus*) (Vesp.), key, **170**; BURKS, Chalcidini, revision, **235**; COCKERELL, Bembecids, Californian Is., **322**; COLE, Formicidae, Great Smoky Mts., Tennessee, list, keys, **326**; CREIGHTON, *Formica rufa*, revision of varr., **369**; CUSHMAN, *Exenterus* (Ichn.), revision, **378**; *Iseropus* (Ichn.), revision, **379**; HOPPER, Trogini (Ichn.), U.S.A. and Canada, revision, **764**; KROMBEIN, Myrmosinae (Tiphiid.), revision, **919**; MICHENER, *Neolarra* (Apid.), revision, **1108**; MICKEL, *Lomachaeta* (Mutill.), key, **1109**; *Myrmosa*, key to spp. of subgen. *Myrmosula* (Tiphiid.), **1110**; MIDDLEKAUFF, *Neurotoma* (Tenthr.), key, **1111**; MILLIRON, Bombidae, Michigan, keys, distribution, **1116**; MURRAY, *Podalonia* (Spheg.), revision, **1153**; PATE, *Belomicrus* (Spheg.), revision, **1234**; SANDHOUSE, *Trypoxylon* (Spheg.), revision, **1387**; SCHWARZ, Anthidiines, Oregon, key, **1429**; TOWNES, Pimplini, revision, **1615**; WALLEY, *Syndipnus* (Ichn.), key, **1711**; *Campoplegidea* (Ichn.), revision, **1712**; WESSON, Formicidae, south-central Ohio, **1740**.

Lepidoptera: COMSTOCK, Rhopalocera, N. Jersey, **337**; FIELD, *Heterochroa bredowii* (Nymph.), distribution, J. Kans. ent. Soc. **13** p. 123; *Achalarus lyciades* (Hesper.), distribution, J. Kans. ent. Soc. **13** p. 114; Rhopalocera, Kansas, unusual and new records, **512**, **513**; MCDUNNOUGH, *Argynnis* spp. (Nymph.), Cariboo Region, Br. Columbia, **1019**; MOORE, butterflies, Michigan, **1127**; WILD, butterflies, Niagara Frontier Region, **1752**.

Diptera: ADAMS, Chironomidae, Missouri, list, **3**; HALLOCK, Sarcophaginae and allies, N. York, **655**; HARMSTON & KNOWLTON, *Sympycnus* (Dolich.), Utah, key, **665**; *Tachytrechus* (Dolich.), key to ♂ ♂, **666**; HILL, Culicidae, Kansas, **727**; HUCKETT, *Leucophora*, *Proboscimyia* (Anthom.), revision, **774**; MALLOCH, Chamaemyiinae (Sciomyz.), revision of genn., **1047**; MELANDER, *Microphorus* (Empid.), key, **1088**; MORRISON, *Gonia* (Tach.), revision, **1135**; PAINTER, Bombyliidae, keys, **1216**; SHANNON, Highland Syrphids, N. Carolina, **1450**.

Siphonaptera: FOX, spp. n., western U.S.A., **537**; HOLLAND, new records, Br. Columbia, **757**.

Hemiptera: EMERSON, Reduviidae, Oklahoma, distribution, **475**; KNOWLTON & HARMSTON, Utah, **885**; MASON, *Myzus* (Aphid.), revision, **1063**; DE LA TORRE-BUENO, Heteroptera of America, north of Mexico, part 1, additions, corrections, **1610**.

Thysanoptera: ANDRE, *Elaphrothrips*, revision, **34**; BAILEY, *Ankothrips*, revision, **64**.

Mallophaga: EMERSON, Oklahoma, preliminary list, **476**.

Embioptera: ROSS, revision, **1358**.

Ephemeroptera: BERNER, Baetinae, Florida, **135a**; SPIETH, revision of Walker's spp., **1508**.

Odonata: BORROR, Muscongus Bay, Maine, list, **186**; DAVIS, E. Massachusetts 1939, **390**; FERGUSON, Dallas county, Texas, preliminary list, **504**; FISHER, Maryland, list, **517**; LA RIVERS, dragonflies of Nevada, **942**; MONTGOMERY, S. Carolina, list, **1125**; WALKER, Saskatchewan, preliminary list, **1708**.

Orthoptera: URQUHART, *Scudderia* (Acrid.), Ontario spp., key, **1659**.

Thysanura: SLABAUGH, Lepismatidae, key, **1470**.

Protura: EWING, revision, **491**.

TROPICAL AMERICA.

Coleoptera: LIEBKE, *Agra* (Carab.), revision, **977**; REICHENSPERGER, new

myrmecophilous Histeridae, Staphylinidae, **1330**.—**Hymenoptera :** CUSHMAN, Neorhacodinae (Ichn.), revision, **381** ; GAHAN, *Orasema* (Euchar.), key, **583**.—**Diptera :** BEQUAERT, *Phlebotomus* (Psych.), list, distribution, **116** ; EDWARDS, *Neoempheria* (Mycetoph.), revision, **454**.—**Orthoptera :** LA GRECA, Mantidae, **931**.

CENTRAL AMERICA.

Insecta : BOLIVAR Y PIELTAIN, alpine insects on Mexican volcanos, **177**.—**Coleoptera :** BENICK, Steninae (Staph.), revision (concld.), **106** ; HINTON, Elmidae, Mexico, monograph, **736**.—**Hymenoptera :** MURRAY, *Podalonia* (Spheg.), revision, **1153**.—**Diptera :** ALEXANDER, Tipulids, Mexico, **17** ; FAIRCHILD, Tabanidae, Panama, **495** ; Simuliidae, Panama, **496** ; VARGAS, mosquitos, Mexico, **1675** ; *Anopheles*, key to ♀ ♀, **1677**.—**Orthoptera :** HUBBELL, *Amphiacusta* spp. (Gryll.), key, **771**.

ANTILLES.

Coleoptera : BIERIG, *Philonthus* sp. n. (Staph.), Cuba, **143** ; BLACKMAN, *Renocis* sp. n. (Scolyt.), Cuba, **149** ; BLAKE, *Ectmesopus* (Galeruc.) gen. et spp. n., W. Indies, **153** ; *Oedionychis* spp. n. (Haltic.), Haiti, Cuba, **154** ; BREUNING, *Adetus* sp. n., *lherminieri* subspp. n. (Lamiid.), **201** ; CHAPIN, *Delphastus* sp. n. (Coccin.), Porto Rico, **285** ; Aphodiinae, W. Indies, revision, **286** ; MARSHALL, *Nannilipus* gen. et sp. n., Dominica, *Cyrionyx* sp. n., St. Lucia (Curc.), **1060** ; SANDERSON, *Phyllophaga* sp. n. (Melol.), Jamaica, **1386** ; SAYLOR, *Phyllophaga* spp. n. (Melol.), W. Indies, **1396** ; THÉRY, *Neotrachys* sp. n. (Bupr.), St. Lucia, **1575**.

Hymenoptera : NIXON, *Telenomus* sp. n. (Proct.), St. Lucia, **1181** ; SANTSCHI, Formicidae, Martinique, **1388**.

Lepidoptera : BERGER, Rhopalocera, Martinique, Guadeloupe, **129** ; HEINRICH, *Ribua* gen. et sp. n. (Pyral.), Cuba, **707** ; JORDAN, Sphingidae, Cayman Is., **839** ; SCHAUS, Noctuidae, Porto Rico and Virgin Is., revision, **1403**.

Diptera : BEQUAERT, Trinidad, Tabanidae, **120, 125** ; EDWARDS, Culicids, Antigua, list, **458** ; HARDY, *Plecia* sp. n. (Bibion.), Cuba, **662** ; PARSONS, Conopidae, W. Indies and Bermuda, **1229** ; SMART, Simuliidae, **1476**.

Hemiptera : HUNGERFORD, aquatic spp., Cayman Is., **780**.

Isoptera : TUCKER, Termites, Barbados, **1636**.

Odonata : COWLEY, Martinique, **363**.

Orthoptera : HUBBELL, *Amphiacusta* spp. (Gryll.), key, **771**.

SOUTH AMERICA.

Insecta : GALLEGO, Colombia, list, **584** ; TRAVASSOS ET AL., Brazil, list, **1624** ; ZIKÁN, Itatiaia, Mantiqueira, Brazil, **1813**.

Coleoptera : FIEDLER, *Conotrachelus* (Curc.), monograph, **511** ; HINCKS, *Passalus*, key to spp. of *Petrejus* section, **728** ; HINTON, *Neoelmis* (Elmid.), revision, Brazil, **730** ; *Microcylloepus* (Elmid.), Brazil, revision, **731, 734** ; *Cylloepus* (Elmid.), Bolivia, revision, **733** ; *Elmoparnus* (Parn.), revision, **735** ; *Macrelmis*, Peruvian and Bolivian spp., revision, **739**.

Hymenoptera : HEDICKE & KERRICH, Liopteridae (Cynip.), revision, **699** ; SANTSCHI, Formicidae, Brazil, **1388** ; TOWNES, Ichneumonids, Venezuela, **1614**.

Lepidoptera : BERGER, Rhopalocera, Brazil, **129** ; HALL, Rhopalocera, Br. Guiana, catalogue, **653** ; HAYWARD, Hesperiids, Argentina, XII, **694** ; KAYE, Trinidad butterflies, additions, corrections, **861** ; APOLINAR MARIA, Rhopalocera, Colombia, catalogue, **1055**; OITICICA, Sphingidae, Brazil, list, **1198** ; URETA, Chile (cont.), **1658**.

Neuroptera : KIMMINS, Stenosmylinae, Kalosmylinae, revision, **874**.

Diptera : ALEXANDER, Tipulidae, VI, Brazil, **26** ; AYROZA GALVÃO & COUTINHO, *Phlebotomus* (Psychod.), São Paulo, **59** ; FRAGA, Tabanidae, Chile (concl.), **546** ; KUMM, KOMP & RUIZ, Culicids, Costa Rica, **924** ; LANE & COUTINHO, *Mansonia* key to spp. of subgen. *Rhynchotaenia* (Culic.), **940** ; MACFIE, Ceratopogonids, Br. Guiana, Trinidad, **1027, 1029** ; PARAMONOV, *Lyophlaeba* spp. (Bombyl.),

key, **1223**; PATIÑO-CAMARGO, blood-sucking spp., Colombia, **1236**; SMART, Simuliidae, Br. Guiana, **1476**; VIMMER & SOUKUP, Puno, Peru, revision, **1697**.

Hemiptera: DA COSTA LIMA, *Pseudococcus*, Brazil, key, **355**; HARRIS, Nabidae, **673**; MONTE, Tingidae, Venezuela, **1123**; Tingidae, Brazil, **1124**; PATIÑO-CAMARGO, blood-sucking spp., Colombia, **1236**.

Odonata: COWLEY, Brazil, **363**; KENNEDY, *Miocora* and allied genn., Ecuador, **865**.

Orthoptera: LIEBERMANN, Acrididae, Mendoza, **976**; MELLO-LEITÃO, Proscopidae, monograph, **1094**; REHN, *Trimerotropis* (Acrid.), revision, **1327**.

III.—SYSTEMATIC.

COLEOPTERA.

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rugifrons Sh., *P. pastoricus* Br., *egmontensis* Br., *P. irregularis* Br., *sculptipes* Br., *P. lewisi* Br., *P. setiventris* Br., *P. antennalis* Br.) p. 500; *mucronata* Br. (= *P. oxymelus* Br., *P. burrowsi* Br., *P. fieldi* Br.) p. 501; *subaenea* Guér. (= *P. sinuellus* Br.); *vagepunctata* White (= *intermittens* Chaud., *praecox* Br.) p. 502, BRITTON Trans. Proc. roy. Soc. N.Z. **69**.—*H. integrata* see *Neoferonia*.

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Sphenoptera burgeoni **sp. n.** Belg. Congo p. 184 fig., THÉRY t.c.

Steraspis speciosa notes p. 415, GRIDELLI Atti Soc. ital. Sci. nat. **78** 1939.

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Catalogue of Tenebrionidae, II, GEBIEN Mitt. münchn. ent. Ges. **29** 1939 pp. 739–770; **30** 1940 pp. 405–436.

Monograph of Platyscelini, KASZAB Mitt. münchn. ent. Ges. **30** pp. 119–235, 1 map.

Notes and descriptions of wingless Tenebrionidae, KOCH Mitt. münchn. ent. Ges. **30** pp. 254–337, 3 maps, 5 figs.

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Endaeus sublucidus **sp. n.** Chyulu Hills, Kenya p. 60, MARSHALL J. E. Afr. Ug. n. H. Soc. **15.**

Endalus communis **sp. n.** Argentina p. 113, HUSTACHE An. Soc. ci. Argent. **129.**

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Erycosimus **gen. n.** (Cryptorrhynchinae) p. 117, *bruchi* **sp. n.** Argentina, Uruguay p. 118, HUSTACHE An. Soc. ci. Argent. **129.**

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Eugnamptus sanguinolentus **sp. n.** N.W. China p. 609 ; key to allied spp. p. 610, Voss Mitt. münchn. ent. Ges. **29** 1939.

Eurostauletes **subgen. n.** see *Auletobius.*

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Haplocorynus crassulus **sp. n.** N. Rhodesia, Tanganyika p. 300, MARSHALL Redia **25** 1939.

Hemieuryomus **gen. n.** (Euryomini) p. 96, KESSEL Fn. bras. col. 1935.

Henosomus signatus **sp. n.** Bolivia p. 132, HUSTACHE An. Soc. ci. Argent. **129.**

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Heterosternus dubitabilis Argentina, Paraguay, *nigerrimus* Brazil, Paraguay, **spp. n.** p. 276, HUSTACHE An. Soc. ci. Argent. **129.**

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Hololixus **subgen. n.** see *Lixus.*

Hylobius (**subgen. n.** *Hypohylobius* p. 78), Voss Ent. Nachr. **8** 1934.—4-*nodosus parcemaculatus* **spp. n.** Yunnan p. 263, Voss Ent. Bl. **35** 1939.

Hypohylobius **subgen. n.** see *Hylobius.*

Isaniris seydeli key to group p. 7 (with **var. n.** *spinipes* p. 8) ; *setipennis* **sp. n.** p. 9 Belg. Congo, HUSTACHE Expl. Parc nat. Albert, Miss. de Witte (1933–1935) fasc. **28** 1939.

Ischnobrotus gedyei **sp. n.** Chyulu Hills, Kenya p. 41 fig., MARSHALL J. E. Afr. Ug. n. H. Soc. **15.**

Ladustaspis citriventris **sp. n.** Brazil, Argentina p. 277, HUSTACHE An. Soc. ci. Argent. **129.**

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Lepidotychius monograph pp. 4–23 ; *winkleri* Azerbaijan pp. 8, 15, *güntheri* pp. 9, 21 **spp. n.** ; *urbanus* **subsp. n.** *desertus* pp. 9, 14 Turkestan figs., FRANZ Mitt. münchn. ent. Ges. **30.**

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Macrancylus a Pacific and not American genus p. 142, ZIMMERMAN Pan-Pacific Ent. **16.**—*M. linearis* Lec. (= *immigrans* Perk.) p. 285, ZIMMERMAN Occ. Pap. Bishop Mus. **15.**

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Neocyphus **n.n.** for *Cyphus* Germ. nec *Chyphus* Thunb. p. 23 (note), BEDEL Fn. Col. Bassin Seine **6** 1883.

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Falsenicodes **gen. n.** p. 132, *lineatus* **sp. n.** New Guinea p. 133, BREUNING Folia zool. hydrobiol. **10.**

Falsepilysta vitticollis **sp. n.** Luzon p. 427, BREUNING t.c.

Falsestola **gen. n.**, *inermicollis* **sp. n.** Brazil p. 155, BREUNING t.c.

Falsischnolea **gen. n.** for *Ischnolea pallidipennis* Chevr. (type); *flavoapicalis* p. 167, *nigrobasalis* p. 168 **spp. n.** Brazil, BREUNING t.c.

Falsohippopsis **gen. n.**, *megacephala* **sp. n.** Brazil p. 83, BREUNING t.c.

Falsohyagnis **gen. n.**, *preapicemaculata* **sp. n.** Gabun p. 170, BREUNING t.c.

Falsomelanauster **gen. n.** for *Melanauster nitidus* Breun. (type) p. 124; *strandiellus* **sp. n.** Tonkin p. 125, BREUNING t.c.

Falsostesilea **gen. n.** for *Stesilea perforata* Pic (type) p. 168; *puncticollis* **sp. n.** Tonkin p. 169, BREUNING t.c.

Gibbestola **gen. n.**, *griseovaria* (type) p. 72, *flavescens* p. 73 **spp. n.** Brazil, BREUNING t.c.

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Grammopsoides **gen. n.** p. 433, *spinipennis* (type) Ecuador, *rufipes* Tahiti, **spp. n.** p. 434, BREUNING Folia zool. hydrobiol. **10.**

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Gyaritus aurescens **sp. n.** Borneo p. 425, BREUNING Folia zool. hydrobiol. **10.**

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Hippopsicon ochreomaculatum, confluens, attenuatum, rugicolle p. 192, *densepunctatum, rotundipenne, griseopictum, fimbriatum* p. 193, **spp. n.** Belg. Congo, BREUNING t.c.—*H. tuberculicolle* see *Pseudohippopsicon.*

Hippopsis septemvittata, fimbriata p. 81, *albicans* p. 82, *femoralis* p. 200, *densepunctata, macrophthalma* p. 434 Brazil, *septemlineata* p. 81, *quadrivittata* p. 82 Colombia, *biapicata* Bolivia p. 81, *assimilis* Venezuela p. 82, **spp. n.**, BREUNING t.c.

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Hoplocris griseovittatus **sp. n.** Tanganyika p. 135, BREUNING t.c.

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Hyllisia ochreovittata, persimilis Uganda, *multilineata* Mysore, *albosuturalis* Mozambique p. 197, *trivittata* Sudan, *densepunctata* Tanganyika, *strandi* Hong Kong, *obliquepicta* Sierra Leone, *flavomarmorata* p. 198, *vittipennis* Kenya, *picta, albolineata* Belg. Congo, *sumatrana* Sumatra, *excavata* Assam p. 199, **spp. n.**, BREUNING t.c.

Ichthyodes neopommeriana New Britain, *albovittata* Queensland, *luzonica* Luzon, **spp. n.** p. 418, BREUNING t.c.

Imantocera borneotica **sp. n.** Borneo p. 414, BREUNING t.c.

Iproca **gen. n.**, *acuminata* **sp. n.** Hainan I. p. 165 fig., GRESSITT Philipp. J. Sci. **72.**

Ischniodes **gen. n.**, *mediofusca* **sp. n.** Kamerun p. 127, BREUNING Folia zool. hydrobiol. **10.**

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Ischnoleomimus **gen. n.**, *excavatus* **sp. n.** Peru p. 168, BREUNING Folia zool. hydrobiol. **10.**

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Lasiophrys tinhosensis **sp. n.** Hainan I. p. 226 fig., GRESSITT Philipp. J. Sci. **72.**

Leptophaula **gen. n.**, *femoralis* **sp. n.** Colombia p. 154, BREUNING Folia zool. hydrobiol. **10.**

Lychrosis fasciatus **sp. n.** Hainan I. p. 152 fig., GRESSITT Philipp. J. Sci. **72.**

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Marmylaris truncatipennis **sp. n.** Sikkim p. 140, BREUNING Folia zool. hydrobiol. **10.**

Mecynome latifrons p. 121, *abyssinica, cylindrica* p. 122 Abyssinia, *gracilis* Kenya p. 121, *densepunctata* Uganda p. 122, *unicolor* Tanganyika p. 409, (*Parmenohammus* **subgen. n.**) *striatopunctata* Natal p. 122, **spp. n.**, BREUNING t.c.

Melanauster bowringii White a subsp. of *beryllinus* Hope p. 8, GRESSITT Lingnan Sci. J. **19.**—*M. similis* Gah. a subsp. of *pirouleti* Fairm. p. 102, GRESSITT Philipp. J. Sci. **72.**—*M. nitidus* see *Falsomelanauster.*

Merocentrum **gen. n.** for *Gryllica melzeri* Bondar p. 473 figs., LANE Bol. Biol. (N.S.) **4** 1939.

Mesocacia punctifasciata p. 120, *rugicollis* p. 121, **spp. n.** Hainan I. fig., GRESSITT Philipp. J. Sci. **72.**

Mesolamia cuprea **sp. n.** New Zealand p. 77, BREUNING Folia zool. hydrobiol. **10.**

Mesosa maculifemorata **sp. n.** Hainan I. p. 117 fig., GRESSITT Philipp. J. Sci. **72.**

Metamulciber **gen. n.** p. 415, *albostriatus* (type), *geometricus* **spp. n.** New Guinea p. 416, BREUNING Folia zool. hydrobiol. **10.**

Miaenia laterimaculata **sp. n.** Hainan I. p. 188 fig., GRESSITT Philipp. J. Sci. **72.**

Microcleptes denticollis see *Enotocleptes.*

Microestola **gen. n.**, *bidentata* **sp. n.** Hainan I. p. 180, GRESSITT Philipp. J. Sci. **72.**

Microlamia elongata **sp. n.** New Zealand p. 115, BREUNING Folia zool. hydrobiol. **10.**

Mimadjinga **gen. n.**, *flavovittata* **sp. n.** Sumatra p. 184, BREUNING t.c.

Mimancita strandi **sp. n.** N.S. Wales p. 126, BREUNING t.c.

Mimapatelarthron **gen. n.** p. 209, *javanicum* (type) W. Java, *albonotatum* Malacca **spp. n.** p. 210, BREUNING t.c.

Mimaprosopus **gen. n.**, *lineatus* **sp. n.** Brazil p. 84, BREUNING t.c.

Mimenicodes **gen. n.** for *Enicodes cylindricus* Fauv. (type), etc.; *cylindroides, unicolor* **spp. n.** New Caledonia p. 133, BREUNING t.c.

Mimestola **gen. n.**, *imitatrix* **sp. n.** Panama p. 74, BREUNING t.c.

Mimocentrura **gen. n.** p. 79, *bicristata* **sp. n.** Assam p. 80, BREUNING t.c.

Mimocoedomea **gen. n.** p. 429, *fusca* **sp. n.** Madagascar p. 430, BREUNING t.c.

Mimocoelosterna **gen. n.** p. 125, *flavescens* **sp. n.** Burma p. 126, BREUNING t.c.

Mimohippopsicon **gen. n.**, *murinum* **sp. n.** Mozambique p. 194, BREUNING t.c.

Mimohippopsis **gen. n.** p. 196, *inaequalis* **sp. n.** Madras p. 197, BREUNING t.c.

Mimohyagnis **gen. n.**, *tuberculatus* **sp. n.** Sumatra p. 148, BREUNING t.c.

Mimolophia **gen. n.**, *brunnea* **sp. n.** Kamerun p. 176, BREUNING t.c.

Mimonephelotus **gen. n.**, *flavomarmoratus* **sp. n.** Tonkin p. 124, BREUNING t.c.

Mimoniphona **gen. n.** p. 419, *fasciculata* **sp. n.** S. India p. 420, BREUNING t.c.

Mimoparmena **gen. n.**, *murina* **sp. n.** Queensland p. 119, BREUNING t.c.

Mimoropica fascicollis **sp. n.** Borneo p. 149, BREUNING t.c.

Mimosybra carinipennis New Guinea, *uniformis* Australia, **spp. n.** p. 166, BREUNING t.c.

Mimovelleda **gen. n.** p. 409, *humeridens* **sp. n.** Tanganyika p. 410, BREUNING t.c.

Mispila obliquevittata Java, *papuana* New Guinea p. 144, *albosignata* Malacca p. 425, **spp. n.**, BREUNING t.c.

Mispilodes grisescens **sp. n.** Philippines p. 144, BREUNING t.c.

Monoxenus kenyensis **sp. n.** Kenya p. 409, BREUNING t.c.

Morimopsis truncatipennis **sp. n.** N. India p. 410, BREUNING t.c.

Mulciber undulatoides **sp. n.** New Guinea p. 415, BREUNING t.c.

Myagrus strandi **sp. n.** Sumatra p. 413, BREUNING t.c.

Myodiadelia **subgen. n.** see *Diadelia.*

Myonoma apicespinosa Kenya, *variegata* Zululand p. 174, *puncticollis* Pondoland, *mediofusca* Uganda, (*Myonomoides* **subgen. n.**) *strandiella* Dahomey p. 175, **spp. n.**, BREUNING Folia zool. hydrobiol. **10.**

Myonomoides **subgen. n.** see *Myonoma.*

Neacanista **gen. n.**, *tuberculipenne* **sp. n.** Hainan I. p. 182 fig., GRESSITT Philipp. J. Sci. **72.**

Nemaschema quadrisulcatum **sp. n.** New Caledonia p. 134, BREUNING Folia zool. hydrobiol. **10.**

Neoestola **gen. n.** p. 182, *solida* **sp. n.** Brazil p. 183, BREUNING t.c.

Neosybra fuscosignata Borneo p. 164, *congoana* Belg. Congo, *imitans* Ternate I., *cylindracea* Cochin China p. 165, **spp. n.**, BREUNING t.c.

Nicarete affinis **sp. n.** Madagascar p. 211, BREUNING t.c.

Niphona yanoi **subsp. n.** *reducta* Hainan I. p. 144 fig., GRESSITT Philipp. J. Sci. **72.**

Niphovelleda **gen. n.**, *gracilis* **sp. n.** Abyssinia p. 423, BREUNING Folia zool. hydrobiol. **10.**

Nupserha haddeni **sp. n.** Luzon p. 419, GRESSITT Proc. Hawaii. ent. Soc. **10.**—*N. corrugata* **sp. n.** Hainan I. p. 211; *kankauensis* Schw. from *Oberea* p. 213 figs., GRESSITT Philipp. J. Sci. **72.**

Oberea rosi **sp. n.** Hainan I. p. 218 fig., GRESSITT t.c.—*O. pembertoni* **sp. n.** N. Guinea p. 418, GRESSITT Proc. Hawaii. ent. Soc. **10.**—*O. coxalis* **sp. n.** Kwangtung p. 14 fig., GRESSITT Lingnan Sci. J. **19.**—*O. nigronotatipes* **sp. n.** Tonkin p. 4, PIC Echange **56.**—*O. kankauensis* see *Nupserha.*

Ochreoprosoplus **subgen. n.** see *Prosoplus.*

Ocularia grisescens Uganda, *transversefasciata* Ivory Coast p. 126, *flavovittata* Gabun p. 127, **spp. n.**, BREUNING Folia zool. hydrobiol. **10.**

Ostedes inermis **subsp. n.** *dwabinus* Hainan I. p. 190, GRESSITT Philipp. J. Sci. **72.**

Palimna palimnoides **subsp. n.** *similis* Hainan I. p. 131, GRESSITT t.c.

Panegyrtes bifasciatus p. 178, *striatopunctatus, sparsepunctatus* p. 179, *variacornis* p. 430, **spp. n.** Brazil, BREUNING Folia zool. hydrobiol. **10.**

Parabelcdera **gen. n.**, *apicemaculata* **sp. n.** Kamerun p. 170, BREUNING t.c.

Paradiadelia **gen. n.** p. 175, *bispinosa* **sp. n.** Madagascar p. 176, BREUNING t.c.

Paraepepeotes **gen. n.** (BREUNING) *breuningi* **sp. n.** Tonkin p. 16, Mélang. exot.-ent. **66** 1935.

Paraesylacris **gen. n.**, *bituberosa* (type) Brazil, *columbiana* Colombia, **spp. n.** p. 159, BREUNING Folia zool. hydrobiol. **10.**

Paragrynex **gen. n.**, *ochreosparsus* **sp. n.** Nilgiri Hills p. 131, BREUNING t.c.

Paraleprodera vicina **sp. n.** Java p. 413, BREUNING t.c.

Paramecyna strandiella **sp. n.** Belg. Congo p. 147, BREUNING t.c.

Paramesosella **gen. n.**, *fasciculata* (type) Tonkin, *stheniformis* United Provinces **spp. n.** p. 143, BREUNING t.c.

Paranandra **gen. n.**, *andamanensis* (type) Andaman Is. p. 190, *strandiella* Laos, *aletretioides* Burma p. 191, *plicicollis* Java p. 435, **spp. n.**, BREUNING t.c.

Paranauxesis **gen. n.** p. 129, *antennalis* **sp. n.** Kenya p. 130, BREUNING t.c.

Paraphelipara **gen. n.**, *indica* **sp. n.** N.W. India p. 204, BREUNING t.c.

Parasophronica **gen. n.**, *strandiella* **sp. n.** Sumatra p. 430, BREUNING t.c.

Parauxa **gen. n.** for *Auxa alluaudi* Fairm. (type), etc. p. 156; *latifrons* **sp. n.** Madagascar p. 157, BREUNING t.c.

Parazorilispe **gen. n.**, *crassicornis* **sp. n.** Belg. Congo p. 160, BREUNING t.c.

Parectatosia **gen. n.** p. 207; *valida* (type) N. India, *borneensis* Borneo, **spp. n.** p. 208, BREUNING t.c.

Parestoloides **subgen. n.** see *Estoloides.*

Parmena balteus notes p. 338; *gauthieri* **sp. n.** French Alps p. 341 figs., STÖCKLEIN Mitt. münchn. ent. Ges. **30.**

Parmenohammus **subgen. n.** see *Mecynome.*

Parmenonta laevepunctata Mexico, *strandiella* Argentina, **spp. n.** p. 37, BREUNING Folia zool. hydrobiol. **10.**

Parobages **gen. n.** p. 407, *strandi* **sp. n.** Malacca p. 408, BREUNING t.c.

Perma vittipennis **sp. n.** Brazil p. 185, BREUNING t.c.

Pharsalia clara **sp. n.** Sumatra p. 414, BREUNING t.c.

Phelipara a good genus; *affinis* Sikkim p. 204, *minor* Sumatra p. 436 **spp. n.**, BREUNING t.c.—*P. vittata* see *Anandra.*

Phemonoides **gen. n.** p. 141, *ochreosticticus* **sp. n.** New Britain p. 142, BREUNING Folia zool. hydrobiol. **10.**

Phrynidius echinoides **sp. n.** Mexico p. 407, BREUNING t.c.

Phymatogyrus pulcher **sp. n.** Kenya p. 119, BREUNING t.c.

Pilomecyna **gen. n.** for *Apomecyna serieguttata* Fairm. (type); *excavata* **sp. n.** Madagascar p. 58, BREUNING t.c.

Poliaenus mexicanus **sp. n.** Mexico p. 185, BREUNING t.c.

Pothyne fusiscapa p. 194, *lineolata* p. 195, *rugifrons* p. 196, *seriata* p. 197, **spp. n.** Hainan I. figs., GRESSITT Philipp. J. Sci. **72.**—*P. proxima, flavescens* N. India p. 186, *andamanica* Andaman Is., *elongata* Manipur, *ceylonensis* Ceylon, *indistincta* p. 187, *indica* India, *ochracea, griseolineata* Siam, *philippinica* Philippines, *macrophthalma* p. 188, *sikkimensis* Sikkim, *flavostictica* Assam, *discomaculata* S.W. India p. 189, *celebensis* Celebes p. 190, *femoralis* Java p. 432, *borneotica* Borneo, *rugiscapa* Saparua I. p. 433, **spp. n.**, BREUNING Folia zool. hydrobiol. **10.**

Presates marmoratus **sp. n.** Hainan I. p. 158 fig., GRESSITT Philipp. J. Sci. **72.**

Prosoplus vanicorensis Vanikoro I., *rugosicollis* Palau I., *basivittatus* p. 141, *paganoides* New Guinea (*Ochreoprosoplus* **subgen. n.**), *ochreopictus* Queensland p. 423, **spp. n.**, BREUNING Folia zool. hydrobiol. **10.**

Protilema strandi **sp. n.** New Guinea p. 410, BREUNING t.c.

Prymnopteryx bituberosa Colombia, *similis* Cayenne, **spp. n.** p. 59, BREUNING t.c.

Psacothea inarmata **sp. n.** Hainan I. p. 92 fig., GRESSITT Philipp. J. Sci. **72.**

Pseudanaesthetis seticornis p. 176, *whiteheadi* p. 177, **spp. n.** Hainan I. fig., GRESSITT t.c.—*P. nigripennis* **sp. n.** Burma p. 58, BREUNING Folia zool. hydrobiol. **10.**—*P. bicoloripes* see *Pseudoterinaea.*

Pseudectatosia **gen. n.**, *strandiella* **sp. n.** Sikkim p. 209, BREUNING Folia zool. hydrobiol. **10.**

Pseudepectasis **gen. n.**, *bispinosa* **sp. n.** Brazil p. 213, BREUNING t.c.

Pseudestola **gen. n.** p. 181, *densepunctata* **sp. n.** Brazil p. 182, BREUNING t.c.

Pseudocalamobius lobatus, bispinosus, seriemaculatus Nilghiri Hills p. 201, *mediomaculatus* Manipur, *rufescens* N. India, *ceylonensis* p. 202, *strandi* Ceylon, *truncatus, proximus* Sikkim p. 203, *flavolineatus* Br. India, *incertus* "Queensland" p. 435, **spp. n.**, BREUNING t.c.

Pseudohippopsicon **gen. n.** for *Hippopsicon tuberculicolle* Auriv. (type) p. 194; *parvum* Angola p. 195, *meridionalis* Transvaal, *flavescens* Sudan, *albolateralis, latifrons* Belg. Congo, *albescens* Nesibe, Br. India p. 200, **spp. n.**, BREUNING t.c.

Pseudopsacothea **gen. n.** (BREUNING), *albonotata* **s.p. n.** Tonkin, p. 16, PIC Mélang. exot.-ent. **66** 1935.

Pseudoranova multifasciculata **sp. n.** Madagascar p. 136, BREUNING Folia zool. hydrobiol. **10.**

Pseudorhodopis **gen. n.**, *inermis* **sp. n** Assam p. 128, BREUNING t.c.

Pseudostyne **gen. n.** p. 183, *alboplagiata* **sp. n.** Madagascar p. 184, BREUNING t.c.

Pseudotaxia **subgen. n.** see *Esthlogena.*

Pseudoterinaea **gen. n.** for *Pseudanaesthetis bicoloripes* Pic (type); *indica* **sp. n.** Nilgiri Hills p. 178, BREUNING t.c.

Pterelophia albonigra p. 146, *arctofasciata* p. 147, **spp. n.** Hainan I. figs., GRESSITT Philipp. J. Sci. **72.**—*P. kaleea* **subsp. n.** *inflexa* Kwangtung p. 11 fig., GRESSITT Lingnan Sci. J. **19.**—*P. mediomaculata* Singapore, *pluricarinata* Ivory Coast p. 137, *humeralis* Sumatra, *trivittata* Travancore, *mediopicta* Kenya p. 138, *dayremi* Madras, *bella* Nilgiri Hills p. 139, *ochreomaculata* Sikkim p. 140, *rufuloides* Borneo, *caffrariae* S. Africa p. 421, *bifasciculata* Laos, *bicristulata* Tonkin p. 422, **spp. n.**, BREUNING Folia zool. hydrobiol. **10.**

Ramularius unicolor **sp. n.** Fr. Equatorial Africa p. 160, BREUNING t.c.

Rhaphiptera albicans **sp. n.** Brazil p. 152, BREUNING t.c.

Rhodopsis similis Assam, *japonica* Japan, **spp. n.** p. 414, BREUNING t.c.

Rhytiphora truncata **sp. n.** Queensland p. 424, BREUNING t.c.

Rondibilis seatoni **sp. n.** Hainan I. p. 189 fig., GRESSITT Philipp. J. Sci. **72.**

Ropica sublineata p. 162, *ngauchilae* p. 163, **spp. n.** Hainan I. figs., GRESSITT t.c.—*R. nigrovittata, sparsepunctata* **spp. n.** Borneo p. 426, BREUNING Folia zool. hydrobiol. **10.**

Ropicella **gen. n.**, *antennalis* **sp. n.** Fiji p. 150, BREUNING t.c.

Ropicomimus papuanus **sp. n.** New Guinea p. 150, BREUNING t.c.

Rucentra ochreopunctata Java, *punctifrons* Philippines, **spp. n.** p. 164, BREUNING t.c.

Salvazaon breve **sp. n.** Tonkin p. 4, PIC Echange **56.**

Serixia abbreviata **sp. n.** p. 200; *longicornis* **subsp. n.** *pubescens* p. 201 Hainan I. figs., GRESSITT Philipp. J. Sci. **72.**

Sodus papuanus **sp. n.** New Guinea p. 145, BREUNING Folia zool. hydrobiol. **10.**

Somatidia ampliata, laevithorax, rufescens **spp. n.** New Zealand p. 117, BREUNING t.c.—*S. pernitida* **n. n.** for *nitida* McKeown nec Brown p. 310, McKEOWN Rec. Aust. Mus. **20.**

Sophronica angusticollis **subsp. n.** *borana* S. Abyssinia p. 238, MÜLLER Miss. biol. Paese Borana **2** 1939 no. 1.—*S. nigriceps* Nilgiri Hills p. 47, *subdivisa* p. 49, *longeantennata* p. 51, *antennalis* p. 54 Tanganyika, *cameruni* Kamerun, *chinensis* Kwei-chow, *albopicta, spinipennis, grossepunctata* p. 49, *cinerascens* p. 53, *ochreoscutellaris* p. 55, *basigranulata* p. 57 Uganda, *alboapicalis* p. 49, *coeruleipennis* p. 50, *costipennis* p. 55 Gabun, *madagascariensis* Madagascar, *indica* Assam, *gracilior* p. 50, *rufulescens, dorsovittata* p. 53, *major* p. 54, *nigritula* p. 56, *nigricollis* p. 177 Kenya, *cephalotes* p. 50, *rufobasalis, sericans, leonensis* p. 52 Sierra Leone, *rubida* p. 51, *microphthalma* p. 54, *nigroapicalis* p. 58 Natal, *ruficeps* Nyasaland p. 51, *gracilis* Pondoland, *kivuensis* p. 52, *nigrosetosa, nigra, setosa, fuscolateralis* p. 56, *ochreomarmorata* p. 57, *humeralis* Belg. Congo, *fimbriata* Philippines p. 177, *nigrobivittata* p. 52, *rufula* p. 58 Port. E. Africa, *suturella* N. Nigeria, *scotti, persimilis* Abyssinia p. 54, *pseudintricata* Somaliland, *strandi* N. Rhodesia p. 55, **spp. n.**, BREUNING Folia zool. hydrobiol. **10.**

Soridopsis **gen. n.**, *biapicata* **sp. n.** Assam p. 161, BREUNING t.c.

Stathmodera flavescens Zanzibar, *vittata* Angola p. 44, *aethiopica* Abyssinia p. 157, *densesulcata* Ivory Coast p. 427 **spp. n.**, BREUNING t.c.

Stenellipsis longula, viridipes p. 115, *parallela* New Zealand, *sericans, strandi, laterifusca, persimilis* New Caledonia p. 116, **spp. n.**; *maculipennis* **n. n.** for *maculata* Bat. nec Montr. p. 115, BREUNING t.c.

Stenidea bituberosa **sp. n.** Uganda p. 44, BREUNING t.c.

Stenideopsis **gen. n.**, *madagascariensis* **sp. n.** Madagascar p. 171, BREUNING t.c.

Stenopausa **gen. n.**, *elongatissima* **sp. n.** New Britain p. 162, BREUNING t.c.

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Philopona aburiensis **sp. n.** Gold Coast p. 45, Bryant Proc. R. ent. Soc. Lond. (B) **9.**

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Podagricomela **gen. n.**, *weisei* **sp. n.** China p. 36, Heikertinger Koleopt. Rdsch. **11** 1924.

Psylliodes napi **var. n.** *hignetti* England p. 120, Donisthorpe Ent. Rec. **52.**

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Galerucida nigropicta Fairm. (= *nigropunctatoides* Mader) p. 23; *nigricornis* **sp. n.** Sikkim p. 24; *apicipennis* further description p. 25, Laboissière Bull. Mus. H. n. Belg. **16** no. 3.

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Merista yunnanensis Lab. (= *fraternalis yunnanensis* Maul.) p. 18, Laboissière op. cit. **16** no. 3.

Monolepta nigeriae **sp. n.** Nigeria p. 48, Bryant Proc. R. ent. Soc. Lond. (B) **9.**

Neolochmaea **gen. n.** for *Lochmaea tropica* Jac. p. 153, Laboissière Mém. Mus. H. n. Belg. (2) **15** 1939.

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Pseudocophora apicalis further description p. 13; *philippinensis* Philippines p. 14, *femoralis* Tenasserim p. 15, *madoni* Tonkin p. 16 **spp. n.**, LABOISSIÈRE t.c.

Sphenoraia bengalensis Bengal p. 27, *convexa* Siam p. 29, **spp. n.**, LABOISSIÈRE t.c.

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Hispids from America in Brit. Museum, UHMANN Ann. Mag. n. H. (11) **6** pp. 449–461.

Genotypes of Uhmann's genera of Hispinae, UHMANN Ent. Tidskr. **61** pp. 143–144.

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Nympharescus spp. notes pp. 298–299, UHMANN Ent. Bl. **35** 1939.

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Octuroplata bella, bohemani **spp. n.** Amazonas p. 453, UHMANN t.c.

Oxychalepus centralis **sp. n.** Paraguay, Brazil p. 451, UHMANN t.c.

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Temnocthispa jocosa **sp. n.** Amazonas p. 460, UHMANN Ann. Mag. n. H. (11) **6.**

Uroplata spaethi **sp. n.** Brazil p. 457 figs., UHMANN t.c.—*U. cruralis* **sp. n.** Fr. Guiana p. 170, UHMANN Mem. Soc. ent. ital. **18.**

Xenarescus monoceros notes p. 298, UHMANN Ent. Bl. **35** 1939.

Xenochalepus discernendus **sp. n.** Mexico p. 452, UHMANN Ann. Mag. n. H. (11) **6.**—*X. ocelliger* **sp. n.** Brazil p. 168, UHMANN Mem. Soc. ent. ital. **18.**

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Aethiopocassis maynéi **subsp. n.** *biramosa*; *suspiciosa* **subsp. n.** *flavofemorata* p. 390; *cinctidorsum* **subsp. n.** *burgeoni* p. 391 Belg. Congo, SPAETH Rev. Zool. Bot. afr. **24** 1934.

Cassida derasa p. 10, *solida* p. 11, *inflaccens* Indo-China, *corollata* Borneo p. 12, **spp. n.**, SPAETH Ent. Tidskr. **61.**—*C. gabonicola, testudinea* see *Orobiocassis.*

Chiridopsis ruandana **sp. n.** Ruanda p. 392, SPAETH Rev. Zool. Bot. afr. **24** 1934.

Fornicocassis unicolor **sp. n.** Belg. Congo p. 388, SPAETH t.c.

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Himatidium neivai **sp. n.** Brazil p. 205 figs., BONDAR Rev. Ent. Rio de J. **11.**

Hoplionota kenyana Kenya p. 507, *excelsa* Sarawak p. 508, *pochoni* Madagascar p. 510, *sumatrana* Sumatra p. 511, **spp. n.**, SPAETH Ann. Mag. n. H. (11) **5.**

Neomphalia Spaeth type designated *lateralis* F. p. 9, BARBER & BRIDWELL Bull. Brooklyn ent. Soc. **35.**

Omoteina Chev. (= *Trikona* Maul.) p. 10, BARBER & BRIDWELL t.c.

Orobiocassis **gen. n.** for *Cassida gabonicola* Sp. (type), *testudinea* Boh. p. 392, SPAETH Rev. Zool. Bot. afr. **24** 1934.

Polychalca see *Polychalma.*

Polychalma **n. n.** for *Polychalca* Weise nec Chevr., type *multicava* Latr. p. 9, BARBER & BRIDWELL Bull. Brooklyn ent. Soc. **35.**

Pseudomesomphalia Spaeth type designated *discors* F. p. 9, BARBER & BRIDWELL t.c.—See *Stolas.*

Spaethiella **n. n.** for *Hemisphaerota* Spaeth nec Chev., type *sanguineum* F p. 11, BARBER & BRIDWELL t.c.

Stolas Billb. (= *Pseudomesomphalia* Spaeth) type designated *discors* F. p. 9, Barber & Bridwell t.c.

Trigonaspis conducta **subsp. n.** *burgeoni* Belg. Congo p. 391, Spaeth Rev. Zool. Bot. afr. **24** 1934.

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Weiseocassis sublaevis **sp. n.** Belg. Congo p. 387, Spaeth Rev. Zool. Bot. afr. **24** 1934.

HYMENOPTERA.

Keys to French Hymenoptera, Berland et al. Fn. de France tabl. syn. ill. **7** 213 pp. 712 figs.

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Apidae (*s.l.*).

Keys to genn. of Bombidae, Milliron Pap. Mich. Acad. Arts Sci. Lett. **24** Zool. 1939 p. 169.

Key to Anthidiines of Oregon, Schwarz Amer. Mus. Novit. No. 1058 p. 1.

Allodape variegata see *Allodapula.*

Allodapula **gen. n.** for *Allodape variegata* Smith p. 220, Cockerell Ann. Mag. n. H. (10) **14** 1934.

Andrena (*Dactylandrena*, *Conandrena* p. 20, *Tropandrena*, *Platandrena* p. 21 **subgenn. n.**), Viereck Canad. Ent. **56** 1924.

Anthidium karossense S. W. Africa p. 663, *katbergense* Cape Province p. 665 **spp. n.**; *tuberculiferum* ♂ ♀ p. 664 (with **subsp. n.** *namaqualandicum* Namaqualand p. 665); *severini* **subsp. n.** *eriksoni* S.W. Africa p. 667 fig., Mavromoustakis Ann. S. Afr. Mus. **32.**—*A. clementinum* ♀ p. 138, Cockerell Bull. S. Calif. Acad. Sci. **38.**—*A. wallisi* **var. n.** *wallowana* Oregon p. 4; *nebrascense* discussed p. 6 fig., Schwarz Amer. Mus. Novit. No. 1058.

Augochlora pulcherrima p. 467, *pereirai* p. 469, **spp. n.** Brazil, Moure Rev. Ent. Rio de J. **11.**

Bombus keys to spp., varr., workers and males of Michigan spp. pp. 170–176, Milliron Pap. Mich. Acad. Arts Sci. Lett. **24** Zool. 1939.—*B. chaharensis* **sp. n.** Mongolia p. 94 fig., Yasumatsu Trans. Sapporo n. H. Soc. **16.**—*B. dahlbomii* further description p. 107 fig., Ruiz Rev. chil. H. n. **43.**

Centris californica, *rhodomelas* **spp. n.** California p. 139, Timberlake Pan-Pacific Ent. **16.**

Coelioxys catalinica **sp. n.** Santa Catalina I. p. 136, Cockerell Bull. S. Calif. Acad. Sci. **38.**

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Crocisa revision of French spp. pp. 161–171, key p. 163; *histrionica* Ill. (= *major* Mor.) p. 166; *hirta* **sp. n.** France p. 169 figs., de Beaumont Ann. Soc. ent. Fr. **108.**

Dactylandrena **subgen. n.** see *Andrena.*

Diadasia lutzi **subspp. n.** *difficilis* p. 22, *deserticola* p. 23; *vallicola* p. 24, *martialis* p. 25, *palmarum* p. 27 **spp. n.**; *australis* **subsp. n.** *californica* p. 28 U.S.A., Timberlake Bull. Brooklyn ent. Soc. **35.**

Dianthidium heterulkei **sp. n.** p. 6 (with **var. n.** *cornucopiana* p. 8) Oregon fig., Schwarz Amer. Mus. Novit. No. 1058.

Epinomia **gen. n.** for *Nomia andrenoides* Vach. p. 113, Alfken Miss. biol. Paese Borana **3** 1939 no. 2.

Euryglossa nigrocyanea **sp. n.** Australia p. 22 (explan. pl. 2 fig. 18), Rayment A cluster of bees 1935.

Halictomorpha phaedra ♀ p. 471; *mottai* p. 473, *opaca* p. 475, **spp. n.** Brazil, Moure Rev. Ent. Rio de J. **11.**

Halictus chaharensis **sp. n.** Mongolia p. 92, Yasumatsu Trans. Sapporo n. H. Soc. **16.**—*H. hessei* **n. n.** for *georgicus* Ckll. nec Blüth., Cockerell Entomologist **73.**—*H. obscurescens* Uganda p. 83, *calviniellus* p. 84, *semidiversus* p. 89, *leonis* p. 90 S. Africa, *matopiensis* p. 85, *rhodesi* p. 87, *retigerus* p. 88 S. Rhodesia, *pulchritarsis* Natal p. 86, *vumbensis* p. 246, *holostictus* p. 247, *hypochlorinus* p. 251, *atricillus* p. 252 S. Rhodesia, *durbanensis* p. 248, *micropastinus* p. 249, *parapastinus*, *semipastinus* p. 250, *rufitarsellus* p. 251 Natal **spp. n.**; *malachurinus* r. *levisculptus* ♂ p. 247, Cockerell Ann. Mag. n. H. (11) **5.**—*H. chloronotulus*, *camphorellus* p. 176, *jucundiformis* p. 181,

trichiurus p. 182, *pervirens* p. 185 Cape Province, *cessulus* p. 177, *subincertus* p. 178, *matabelicus* p. 179 S. Rhodesia, *discretulus* p. 178, *ingogoensis* p. 180 Natal, *duplocinctulus* p. 182, *pontificus* p. 184 Orange Free State, *niveocinctulus* S.W. Africa p. 183, **spp. n.**; *nanula* ♀ p. 185, COCKERELL op. cit. (11) **6.**

Heriades braunsi ♀ p. 82, COCKERELL op. cit. (11) **5.**—*H. pachyacanthus* p. 113, *debilicornis* p. 114, **spp. n.** Belg. Congo, COCKERELL Proc. ent. Soc. Wash. **42.**

Heterocolletes **subgen. n.** see *Paracolletes.*

Lysicolletes **subgen. n.** see *Paracolletes.*

Megachile heterotricha Ckll. good sp. p. 69, COCKERELL Entomologist **73.**—*M. subtranquilla ericetorum* ♂ ♀ pp. 231–233; *tsurugensis* ♂ p. 233; *manchuriana* **sp. n.** S. Manchuria p. 235 figs., YASUMATSU Trans. n. H. Soc. Formosa **29** 1939.

Neolarra revision of N. American spp. pp. 347–362, keys pp. 348, 359; *abdominalis* p. 352, *vandykei* p. 353, *californica* p. 356, *linsleyi* p. 357, *coloradensis* p. 362 **spp. n.** U.S.A.; *pruinosa* Ashm. (= *vittata* Ckll.) p. 354 figs., MICHENER Trans. Amer. ent. Soc. **65** 1939.

Nomia andrenoides see *Epinomia.*

Odontochlora neivai **sp. n.** Parana p. 465, MOURE Rev. Ent. Rio de J. **11.**

Paracolletes nigropurpureus p. 138 (explan. pl. 22 fig. 1), *capillatus* p. 185 **spp. n.** Australia (*Heterocolletes* p. 184, *Lysicolletes* p. 208 **subgenn. n.**), RAYMENT A cluster of bees 1935.

Platandrena **subgen. n.** see *Andrena.*

Pseudophilanthus **gen. n.**, *taeniatus* **sp. n.** S. Abyssinia p. 121, ALFKEN Miss. biol. Paese Borana **3** 1939 no. 2.

Psithyrus key to spp. and varr. of Michigan spp. p. 176, MILLIRON Pap. Mich. Acad. Arts Sci. Lett. **24** Zool. 1939.

Serapista nigriceps p. 65, *denticulata* p. 67 good spp.; *n.* **var. n.** *umtalica* p. 65; *rhodesiana* **sp. n.** p. 67 Rhodesia; *friesei* further description p. 68; *rufipes* **subsp. n.** *soni* Bechuanaland p. 69 figs., MAVROMOUSTAKIS Ann. Transv. Mus. **20.**

Tetralonia zavattarii **sp. n.** S. Abyssinia p. 116, ALFKEN Miss. biol. Paese Borana **3** 1939 no. 2.

Trigona fusco-balteata characters p. 151, SCHWARZ Mushi **12** 1939.

Tropandrena **subgen. n.** see *Andrena.*

Xylocopa revision of Oriental spp. of subgenn. *Zonohirsuta* pp. 383–402. *Platypoda* pp. 565–575, *Nyctomelitta* pp. 577–582; *collaris* **subspp. n.** *yangweiella* Fr. Indo-China p. 398, *alboxantha* China p. 399; *sauteri* Fr. a subsp. of *collaris* Lep. p. 400 figs., MAA Lingnan Sci. J. **19.**

Sphecoidea.

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Arpactus boranensis **sp. n.** S. Abyssinia p. 65 figs., GUIGLIA Miss. biol. Paese Borana **3** 1939 no. 2.—*A. plomleyi* **sp. n.** Australia p. 105, TURNER Ann. Mag. n. H. (11) **5.**

Belomicroides revision pp. 7–9, PATE Trans. Amer. ent. Soc. **66.**

Belomicrus characters p. 13, key to Nearctic spp. p. 210, diagnosis of spp. pp. 217–257; *apache* p. 15, *vanyume* p. 17, *querecho* p. 36, *cahuilla* p. 39, *serrano* (with **subsp. n.** *mono* p. 46), *quemaya* p. 47, *jurumpa* p. 53, *vierecki* p. 56, *sechi* p. 60, *pachappa* p. 73, *cucamonga* p. 76, *minidoka* p. 79, *istam* p. 81, *tuktum* p. 84, *mescalero* p. 87, *timberlakei* p. 91, *bridwelli* p. 93 **spp. n.** U.S.A.; *forbesii* Rob. (= *larimerensis* Rohw.) p. 21 (with **subsp. n.** *penuti* p. 27); *cladothricis* **subspp. n.** *eriogoni* p. 70, *prosopidis* p. 72 U.S.A. figs., PATE t.c.

Bembex sanctae-rosae **sp. n** Santa Rosa Is., California p. 135, COCKERELL Bull. S. Calif. Acad. Sci. **38.**

Brachystegus cataractae **sp. n.** Victoria Falls p. 111 fig., ARNOLD Ann. Transv. Mus. **20.**

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Cerceris zavattarii p. 58, *neghelliensis* **spp. n.**; *placita* **var. n.** *arnoldiana* p. 62 S. Abyssinia figs., GUIGLIA Miss. biol. Paese Borana **3** 1939 no. 2.—*C. sedula* p. 104, *vegeta* p. 108, *ephippiorhyncha* p. 109 S. Rhodesia, *somalica* Ital. Somaliland p. 106, *waltoni* Cape Province p. 107, **spp. n.** figs., ARNOLD Ann. Transv. Mus. **20.**

Crabro stevensonianus **n. n.** for *stevensoni* Arn. (species group *Dasyproctus* nec *Entomognathus*); *vumbuiensis* **n. n.** for *collaris* Arn. nec Mats.; *croceosignatus* **sp. n.** S. Rhodesia p. 135; *crippsi* ♂ p. 136, *senex* ♀ p. 137 figs., ARNOLD t.c.—*C. quadriceps* further description p. 153 fig., YASUMATSU Mushi **12** 1939.

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Gastrosericus modestus ♂ p. 122, ARNOLD Ann. Transv. Mus. **20.**

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Nysson triangularis **sp. n.** Australia p. 104, TURNER Ann. Mag. n. H. (11) **5.**—*N. chumash* California p. 1, *coyotero* Arizona p. 3, **spp. n.**, PATE Notul. Nat. **63.**—*N. chrysozonus* see *Idionysson.*

Oxybelus fraudulentus **n. n.** for *decipiens* Arn. nec Brèthes p. 138, ARNOLD Ann. Transv. Mus. **20.**

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Paradryinus kevirae **sp. n.** India p. 50 fig., LAL t.c.

Pseudogonatopus magnus **sp. n.** Indiana p. 11 fig., BROWN Ent. News **51**.

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Campsomeris luciflua **sp. n.** Argentina p. 10, BRADLEY An. Soc. ci. Argent. **130**.

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MUTILLIDAE (including MYRMOSIDAE).

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Apterogyna algirica notes p. 463, INVREA Atti Soc. ital. Sci. nat. **78** 1939.

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Lomachaeta key p. 127; *variegata* California p. 128, *formosula* Mexico p. 130, **spp. n.**, MICKEL Pan-Pacific Ent. **16**.

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Epactiothynnus abductor Sm. (= *candidus* Sm., *papuanus* Cam., *laevissimus* Sm.) ♀ p. 93, TURNER Ann. Mag. n. H. (11) **5**.

Neozeleboria adelpha **sp. n.** Papua p. 94, TURNER t.c.

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Rhagigaster dissociatus **sp. n.** Australia p. 102, TURNER t.c.

Tachynomyia subfragilis, *evelinae* **spp. n.** Papua p. 95, TURNER t.c.

Thynnoturneria xerophila **sp. n.** Australia p. 101, TURNER t.c.

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Anoplius iwatai, *iwatai* [emended to *japonicus* p. 152] **spp. n.** Japan p. 68, YASUMATSU Mushi **12** 1939.

Cordyloscelis (*Lampropleurus* **subgen. n.** p. 425), ARNOLD Ann. Transv. Mus. **15** 1935.

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Eoferreola **subgen. n.** see *Paraferreola*.

Herpetosphex **gen. n.** p. 32, *staphylinoides* **sp. n.** S. Rhodesia p. 33 fig., ARNOLD J. ent. Soc. S. Afr. **3.**

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Orientanoplius melas ♂ p. 279 fig., YASUMATSU t.c.

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Pseudopedinaspis fasciatus **sp. n.** S. Rhodesia p. 31 fig., ARNOLD J. ent. Soc. S. Afr. **3.**

Schistonyx umbrosus Kl. from *Dicyrtomus* p. 135 (note), GUSSAKOVSKIĬ Konowia **14** 1935.

Telostholus kanoi **sp. n.** Botel Tobago I. p. 280 fig., YASUMATSU Trans. n. H. Soc. Formosa **29** 1939.

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Ancistrocerus maderae ♂ p. 2, BLÜTHGEN Ark. Zool. **32B** no. 3.

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Odynerus revision of N. American spp. of subgen. *Leptochilus* pp. 81–91, key p. 81 ; *republicanus* D.T. (= *zendaloides* Rob.) p. 83 ; *trachysomus* p. 84, *tylocephalus* p. 85, *monotylus* p. 86, *minutissimus* p. 87, *lissosomus* p. 88, *crubescens* p. 89, *rubicundulus* p. 90 **spp. n.** U.S.A. figs., BOHART Pan-Pacific Ent. **16.**—*O.* spp. notes p. 41 ; *pseudolateralis*, *albolimbatus* good spp. ; (*Knemodynerus* **subgen. n.**) p. 43 figs., BLÜTHGEN Ent. Tidskr. **61.** —*O. dorsalis* characters p. 52, key to varr. p. 53 ; (with **var. n.** *stricklandi* Alberta, U.S.A. p. 55), BEQUAERT Canad. Ent. **72.**—*O. senegalensis* **var. n.** *neghelliensis* p. 87 ; *subcarinatus* **sp. n.** p. 91 S. Abyssinia figs., GIORDANI SOIKA Miss. biol. Paese Borana **3** 1939 no. 2.

Onchopterocheilus **subgen. n.** see *Pterocheilus.*

Pachymenes symmorphus **var. n.** *sonorensis* U.S.A. p. 101, BEQUAERT Ann. ent. Soc. Amer. **33.**

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Pterocheilus schulthessi further description p. 93 figs., GIORDANI SOIKA t.c.—*P.* notes on allied genn. and revision of N. American spp. pp. 162–208, key to subgenn. and spp. p. 168; (*Megapterocheilus* **subgen. n.** p. 173); *arizonicus* p. 174, *linsleyi* p. 176, *crispocornis* p. 178, *nigricaudus* p. 181, *oregonensis* p. 182, *trichogaster* p. 183, *inyoensis* p. 186, *pedicellatus* p. 188, (*Onchopterocheilus* **subgen. n.** p. 191) *panamintensis* p. 192, *trachysomus* p. 193, *timberlakei* p. 194, *micheneri* p. 196, *hirsutipennis* p. 200, (*Micropterocheilus* **subgen. n.** p. 201), *desertorum* p. 202, *tricoloratus* p. 207, *acuceps* p. 208 **spp. n.**; *flavobalteatus* **subsp. n.** *cyathopus* p. 206 U.S.A.; *diversicolor* further description p. 282 figs., BOHART Ann. ent. Soc. Amer. **33**.

Vespa analis var. *tenebrosa* discussed p. 43, VAN DER VECHT Ent. Meded. Ned.-Ind. **6**.—*V. parallela* André (= *japonica* Sm., *insularis* D.T., *tridentata* Cam.) p. 184 figs., FUKUDA A. & S. Trans. n. H Soc. Formosa **29** 1939.

Chrysidoidea.

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Additions and corrections to "The genotypes of the Chrysididae," BODENSTEIN Ent. News **51** p. 50.

Heteronychinae of S. Africa (key to S. African genn. p. 33), EDNEY Occ. Pap. nat. Mus. S. Rhodesia No. 9 pp. 29–126, 67 figs.

Acrotoma key to S. African spp. p. 50; *arnoldi* p. 51, *discrepans* p. 54 (with **var. n.** *candida* p. 56), **spp. n.** S. Africa figs., EDNEY t.c.

Hedychridium key to S. African spp. p. 57; *maculatum* p. 58, *bulawayoense* p. 60, *parvulum* p. 62, *subtilissimum* p. 64, *laterale* p. 67, *diversum* p. 68, *sinuatum* p. 69, *angulatum* p. 71, *latifrons* p. 72, *vulgare* p. 73, *coloratum* p. 74 (with **var. n.** *impressum*), *uncinatum* p. 76, *ultimum* p. 79 **spp. n.**; *capense* **var. n.** *viridis* p. 60 S. Africa figs., EDNEY t.c.

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Holopyga key to S. African spp.; *capensis* p. 44, *lata* p. 46 **spp. n.**; *janthina* **varr. n.** *minor* p. 48, *dispersepunctata*, *latifrons*, *densepunctata* p. 49 S. Africa figs., EDNEY t.c.

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Revision of German Formicidae, STITZ Tierwelt Dtsch. **37** 1939 428 pp. 1 map 197 figs.

Acamatus see *Eciton* (*Neivamyrmex*).

Acromyrmex subterraneus **var. n.** *peruvianus* Peru p. 606, BORGMEIER Rev. Ent. Rio de J. **11**.—*A. nobilis* **sp. n.** Brazil p. 164; key to group p. 166 fig., SANTSCHI Mém. Mus. H. n. Belg. (2) **15** 1939.

Apterocrema **subgen. n.** see *Crematogaster*.

Apterostigma tramitis p. 417, *immobile* p. 418, **spp. n.** Canal Zone figs., WEBER Rev. Ent. Rio de J. **11**.

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Cephalotes atratus quadridens notes p. 163 figs., SANTSCHI Mém. Mus. H. n Belg. (2) **15** 1939.

Crematogaster coelestis **st. n.** *mercatori* Fr. Guinea p. 162, SANTSCHI t.c.—*C.* (*Apterocrema* **subgen. n.** p. 45), WHEELER Psyche **43** 1936.—*C. nigriceps prelli* p. 103, *mimosae* p. 104 ♀ ♀, MENOZZI Miss. biol. Paese Borana **3** 1939 no. 2.

Cyphomyrmex key to spp. p. 408; *colombianus* Colombia p. 413, *acutus* Panama p. 409, *vorticis* Santa Helena, *longiscapus* Colombia p. 410 **spp. n.**; *rimosus* subsp. *flavescens* **n. n.** for *minutus* var. *flavidus* Wheel. nec Perg. p. 411; *r.* **subsp. n.** *breviscapus* Panama p. 412 figs., WEBER Rev. Ent. Rio de J. **11**.

Diabolus **subgen. n.** see *Dolichoderus*.

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Epipheidole inquilina worker caste pp. 104–109 figs., BLAKE Proc. ent. Soc. Wash. **42**.

Formica indianensis **sp. n.** Indiana p. 224, COLE Amer. midl. Nat. **23**.—*F. rufa* revision of N. American varr. 10 pp., key to N. American subspp. p. 6; *r.* **subspp. n.** *clivia* p. 8, *laeviceps*, *planipilis* p. 9, *subnitens* p. 10 U.S.A. fig., CREIGHTON Amer. Mus. Novit. No. 1055.—*F. rufibarbis* **st.** *subpilosa* **var. n.** *clara* Turkestan pp. 94, 98, KUSNEZOV Rev. russe Ent. **20** 1926. [Cf. Z. R. **65** 1928 p. 303 col. 1 line 23.]

Leptothorax (*Myrmammophilus* **subgen. n.** p. 32), MENOZZI Atti Soc. Nat. Mat. Modena (6) **3** (1924) 1925.—*L. wollastoni* **sp. n.** Madeira p. 45, DONISTHORPE Ann. Mag. n. H. (11) **5**.—*L. duloticus* ♂ p. 81 fig., WESSON Bull. Brooklyn ent. Soc. **35**.—*L. fortinodis* Mayr a var. of *schaumi* p. 95; *ambiguus* **var. n.** *pinetorum* Ohio p. 97, WESSON Amer. midl. Nat. **24**.

Liomyrmex froggatti **sp. n.** N. Guinea p. 40; list of known spp. p. 44 figs., DONISTHORPE Ann. Mag. n. H. (11) **5**.

Lordomyrma infundibuli **sp. n.** New Guinea p. 45 figs., DONISTHORPE Ent. mon. Mag. **76**.

Megalomyrmex wheeleri **sp. n.** Panama p. 425 figs., BIERIG Rev. Ent. Rio de J. **11**.

Messor cephalotes ♂ ♀ p. 102, MENOZZI Miss. biol. Paese Borana **3** 1939 no. 2.

Mycocepurus tardus **sp. n.** Panama p. 416 fig., WEBER Rev. Ent. Rio de J. **11**.

Myrmammophilus **subgen. n.** see *Leptothorax*.

Neivamyrmex **subgen. n.** see *Eciton*.

Nylanderia pearsei **sp. n.** Yucatan p. 254, WHEELER Pub. Carnegie Instn. Wash. **491** 1938.

Odontomachus nigrifrons **sp. n.** N. Guinea; *tyranicus* **var. n.** *obsolescens* Papua p. 106; *saevissimus* **var. n.** *linae* N. Guinea p. 107; *ruficeps* subsp. *cephalotes* **var. n.** *longitudinalis* Waigeu I. p. 108 fig., DONISTHORPE Entomologist **73**.

Orectognathus versicolor **sp. n.** Queensland p. 46, DONISTHORPE Ann. Mag. n. H. (11) **5**.

Pheidole occipitalis **var. n.** *adami* Fr. Guinea p. 161, SANTSCHI Mém. Mus. H. n. Belg. (2) **15** 1939.

Polyrhachis (*Aulacomyrma* **subgen. n.** p. 17), EMERY Bull. Soc. Sci. nat. Lausanne **54** 1921.

Pseudomyrma nigra **sp. n.** Br. Guiana p. 39, DONISTHORPE Ann. Mag. n. H. (11) **5**.

Sima zavattarii **sp. n.** S. Abyssinia p. 99 figs., MENOZZI Miss. biol. Paese Borana **3** 1939 no. 2.

Trachymyrmex cornetzi **subsp. n.** *gatun* p. 420; *morgani* p. 421, *zeteki* p. 422, *balboai* p. 424 **spp. n.** Panama figs., WEBER Rev. Ent. Rio de J. **11.**

Proctotrupoidea (Serphoidea).

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Inostemma africanum **sp. n.** Belg. Congo p. 2 figs., GHESQUIÈRE Bull. Mus. H. n. Belg. **15** 1939 no. 50.

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Adelioneiva **gen. n.** p. 397, *concolor* **sp. n.** Brazil p. 398 figs., FISCHER Rev. Ent. Rio de J. **11.**

Paraspilomicrus **gen. n.**, *froggatti* **sp. n.** Australia p. 123 figs., JOHNSTON & TIEGS Proc. roy. Soc. Qd. **33** 1922.

Trichopria lewisi **sp. n.** Kenya p. 59 fig., NIXON Bull. ent. Res. **31.**—*T. anastrephae* **sp. n.** Brazil p. 19 figs., DA COSTA LIMA Ann. Acad. bras. Sci., Rio de Janeiro **12.**

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Telenomus key to Asiatic spp. p. 497, *crassiclava* S. Lucia p. 501, *transversiceps* p. 506, *pegasus* p. 508, *otones* p. 510 India **spp. n.**; *impressus* Ashm. p. 503, *manolus* Nix. p. 512 further descriptions figs., NIXON Ann. Mag. n. H. (11) **6.**

Chalcidoidea.

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Epibootania **gen. n.** p. 7, GAHAN in NOBLE Sci. Bull. Dep. Agric. N. S. Wales No. 65 1938; *nonvitta* Gir. further description p. 35 figs., NOBLE t.c.

Epimegastigmus brevivalvus, trisulcus see *Megastigmus.*

Megastigmus brevivalvus Gir., *trisulcus* Gir. from *Epimegastigmus* p. 7, GAHAN in NOBLE t.c.; further descriptions pp. 9, 31 figs., NOBLE t.c.

Monodontomerus key to Finnish spp. p. 34; *dilinae* **sp. n.** Finland p. 32 figs., PALMÉN Ann. ent. fenn. **6.**

CHALCIDIDAE.

Revision of Chalcidini in America north of Mexico, BURKS Proc. U.S. nat. Mus. **88** no. 3082 pp. 237–354, 14 figs.

Brachymeria boranensis **sp. n.** S. Abyssinia p. 21, MASI Miss. biol. Paese Borana **3** 1939 no. 2.—*B. euploeae* **var. n.** *fasciata* Sumatra p. 74 (note), SCHNEIDER Mitt. schweiz. ent. Ges. **18.**

Ceratosmicra debilis Say (= *longipetiola* Ashm., *kahlii* Ashm.) p. 344; *meteori* **n.n.** for *debilis* How. (from *Spilochalcis*) nec Say p. 346; *paya* **sp. n.** U.S.A. p. 348 figs., BURKS Proc. U.S. nat. Mus. **88** no. 3082.

Chalcis revision of N. American spp. pp. 243–260, key to spp. p. 245; *lasia* p. 248, *megalomis* p. 250, *neptis* p. 251 **spp. n.** U.S.A.; *barbara* Cress. (= *rufofemorata* Cress.) p. 255; *phoenicapoda* **n. n.** for *rufipes* (from *Smicra*) nec Oliv. p. 257 figs., BURKS t.c.—*C. samoana* **sp. n.** Samoa p. 405, FULLAWAY Proc. Hawaii. ent. Soc. **10.**

Metadontia amoena Say (= *montana* Ashm., *ashmeadi* Cam.) p. 261 figs., BURKS Proc. U.S. nat. Mus. **88** no. 3082.

Smicra rufipes see *Chalcis phoenicapoda.*

Spilochalcis revision of N. American spp. pp. 263–343; *dorsata* Cress. (= *missouriensis* How.) p. 272; *phoenica* p. 276, *elachis* p. 294, *clora* p. 306, *phais* p. 307, *tanais* p. 309, *apaiis* p. 315, *melana* p. 316, *xantha* p. 320, *dema* p. 330, *leptis* p. 340 **spp. n.** U.S.A.; *coxalis* Cress. (= *virens* How.) p. 284; *hirtifemora* Ashm. (= *syrphidis* Wolc.) p. 295; *igneoides* Kby. (= *vittata* Ashm., *mesillae* Ckll.) p. 301; *mariae* Ril. (= *trinidadensis* Ashm., *insularis* Ashm.) p. 303; *juxta* Cress. (= *nigropleuralis* Ashm.) p. 311; *arcana* Cress. (= *encausta* Cress.) p. 313; *subobsoleta* Cress. (= *bioculata* Cress.) p. 323; *flavopicta* Cress. (= *delira* Cr., *decempunctata* Ashm., *mendica* Cr.) p. 331 figs., BURKS Proc. U.S. nat. Mus. **88** no. 3082.—*S. debilis* see *Ceratosmicra meteori.*

Stomatoceras samoana **sp. n.** Samoa p. 407, FULLAWAY Proc. Hawaii. ent. Soc. **10.**—*S. insecutor* **sp. n.** S. Abyssinia p. 24, MASI Miss. biol. Paese Borana **3** 1939 no. 2.

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Chalcura samoana **sp. n.** Samoa p. 408, FULLAWAY Proc. Hawaii. ent. Soc. **10.**

Eucharis scutellaris **sp. n.** Korea p. 425, GAHAN Proc. U.S. nat. Mus. **88** no. 3086.—*E. convergens* see *Schizaspidia.*

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Psilogaster antennatus **sp. n.** Fed. Malay States, Hawaii p. 427, GAHAN t.c.

Schizaspidia convergens Wlk. from *Eucharis* p. 431; *antennata* **sp. n.** Kuala Lumpur p. 433, GAHAN t.c.—*S. tenuicornis*, *polyrachicida*, *septentrionalis*, *manipurensis* see *Stilbula.*

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Stilbulaspis samoana **sp. n.** Samoa p. 409, FULLAWAY Proc. Hawaii. ent. Soc. **10.**

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Australencyrtus **gen. n.**, *giraulti* **sp. n.** Australia p. 118 figs., JOHNSTON & TIEGS Proc. roy. Soc. Qd. **33** 1922.

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Coccidaphycus **gen. n.**, *nigricans* **sp. n.** Argentina p. 110 fig., BLANCHARD An. Soc. ci. Argent. **130.**

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Cleruchus brevipennis **sp. n.** Brasil p. 597 figs., OGLOBLIN Rev. Ent. Rio de J. **11.**

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Revision of the Liopteridae (**fam. n.**), HEDICKE & KERRICH Trans. R. ent. Soc. Lond. **90** pp. 177–225, 3 pls. 30 figs.

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Tropideucoila weldi **sp. n.** Brazil p. 17 figs., DA COSTA LIMA Ann. Acad. bras. Sci. **12.**

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Revision of Neorhacodinae, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3088 pp. 523–526, 1 fig.

Synoptical revision of Trogini of U.S.A. & Canada, HOPPER Trans. Amer. ent. Soc. **65** 1939 pp. 307–346, 1 pl.

Revision of Pimplini of Eastern N. America, TOWNES Ann. ent. Soc. Amer. **33** pp. 283–323, 10 figs.

On Smith's types of Japanese Ichneumonids, UCHIDA Ins. mats. **14** pp. 27–36 (1939), 37–46 (1940).

On Walker's types of Japanese Ichneumonids, UCHIDA Ins. mats. **14** pp. 108–114.

Tylocomnini of Japan, UCHIDA Trans. Sapporo n. H. Soc. **16** pp. 175–180.

Acanthocryptus perscrutator Thunb. (= *Cryptus basalis* Smith) p. 40, UCHIDA Ins. mats. **14**.

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Apistes see *Ephialtes*; *perversus* see *E. ascaniae*.

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Atopotrophos **n. n.** for *Atopognathus* Cush. nec Big. p. 365, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

Apotemnus **gen. n.** p. 359, *truncatus* **sp. n.** Oregon p. 360 fig., CUSHMAN t.c.

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Brachyscleroma **gen. n.** (Cremastini) p. 369, *apoderi* **sp. n.** Java p. 371 fig., CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

Callajoppa cirrogaster Schr. from *Ichneumon* (= *Trogus lutorius* Grav.) p. 332, HOPPER Trans. Amer. ent. Soc. **65** 1939.

Calliephialtes ferrugineus **sp. n.** Porto Rico p. 362, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.—See *Ephialtes*.

Campoplegidea revision of spp. in N. America north of Mexico pp. 647–734, synonymy, characters p. 649, list of spp. p. 654, key p. 655; *vara* p. 663, *canadensis* p. 665, *diversella* p. 671, *confluens*, *associata* p. 673, *laminata* p. 680, *insolita* p. 681, *caudata*, *pectoralis* p. 686, *mitis*, *maritima* p. 689, *caliginosa* p. 693, *rotunda* p. 697, *grahami* p. 698, *gracilis* p. 701, *townsendi* p. 702, *interstitialis* p. 703, *rufigaster* p. 705, *simulans* p. 708, *arizonensis* p. 709, *flavescens* p. 710, *turmalis* p. 711, *nitida*, *lobata* p. 713, *deceptor* p. 714, *australis* p. 715, *tumida* p. 716, *pulchella* p. 717, *ocellata* p. 718, *rufescens* p. 720, *pallescens* p. 722, *robusta* p. 725, *conformis* p. 726, *magnifica* p. 727, *johnsoni* p. 728, *quebecensis* p. 731, *pilosa* p. 733 **spp. n.** U.S.A.; *diversa* Nort. (= *walleyi* Vier., *Campoplex wyomingensis* Vier.) p. 669; *downesi* Vier. (= *vadosa* Vier.) p. 672; *argentea* Nort. (= *citriscapa* Vier.), p. 674; *semirufa* Prov. (= *okanaganensis* Vier.) p. 675; *assita* Nort. (= *Campoplex curvata* Vier., *C. citripes* Vier.) p. 679; *varicoxa* Vier. (= *reticulata* Vier., *Pseudocasinaria paenealia* Vier.) p. 683; *laticincta* Cress. (= *brooksi* Vier.) p. 684; *minor* Prov. (= *Pseudocasinaria decorata* Vier.) p. 688; *crassicornis* Prov. (= *crassata*, Vier., *mimetica* Vier., *sessilis* Vier., *flavicoxa* Vier.) p. 691; *glauca* Nort. (= *rossi* Vier.) p. 692; *vicina* Prov. (= *Campoplex relectum* Davis) p. 695; *seamansi* Vier. (= *edmontonensis* Vier.) p. 696; *woodi* Vier. (= *erythrosoma* Vier.) p. 700; *americana* Ashm. (= *erythromera* Vier.) p. 701; *bellula* D.T. (= *Campoplex photomorphus* Vier., *Idiosomidea secunda* Vier.) p. 711; *major* Cress. (= *totalis* Vier.) p. 726 figs., WALLEY Sci. Agric. **20**.

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Cercodinotomus **gen. n.** for *Psilomastax pictus* Kriech. p. 9 figs., UCHIDA Ins. mats. **15.**

Chasmocryptus penetrator Sm. (= *Plectocryptus hokkaidensis* Uch.) p. 39, UCHIDA op. cit. **14.**

Chenbergus **n. n.** for *Brachycentrus* Tasch. p. 43, NAVÁS Bol. Soc. ent. España **13** 1930.

Clistopyga lateralis see *Tromatobia.*

Conocalama **gen. n.** for *Trogus brullei* Cress.; key to subgenn. & spp. p. 319 (*Tmetogaster* pp. 320, 321 **subgen. n.**); *nubilipennis* Hald. p. 321, *copei* Cress. (= *canadensis* Prov.) p. 323, *occidentalis* Cress. p. 324, *rileyi* Cress. from *Trogus*; *nigrocinctus* Hasey from *Trogus* and a var. of *copei*; *bolteri* Cress. p. 324, *mellosus* Cress. from *Trogus* and var. of *occidentalis*; *occidentalis* **var. n.** *luteata* p. 326; *violipennis* p. 327, *galbinata* p. 328, *fuscalata* p. 330 **spp. n.** U.S.A. figs., HOPPER Trans. Amer. ent. Soc. **65** 1939.

Cratichneumon insolitus Wlk. (*femoratus* var. *teranishii* Uch.) p. 110, UCHIDA Ins. mats. **14.**

Cremastus crassitibialis **sp. n.** Mongolia p. 29, UCHIDA op. cit. **15.**

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Cryptus mongolicus **sp. n.** Mongolia p. 24, UCHIDA Ins. mats. **15.**—*C. basalis* see *Acanthocryptus perscrutator.*

Ctenichneumon apakensis **sp. n.** Mongolia p. 23, UCHIDA Ins. mats. **15.**

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Dioctes gelechiae **sp. n.** Formosa p. 201, SONAN Trans. n. H. Soc. Formosa **29** 1939.

Echthromorpha Holmgr. (= *Allotheronia* Ashm., *Glyptogastra* Ashm.); *intricatoria* F. (= 12-*guttata* Ashm.) p. 288 (note), TOWNES Ann. ent. Soc. Amer. **33.**

Enizemum petiolatum Say from *Pimpla* (= *Bassus tibialis* Cress.) p. 323, TOWNES t.c.

Ephialtes Grav. (= *Apistephialtes* Seyr., *Apistes* Seyr., *Calliephialtes* Ashm., *Epiurus* Först., *Eremochila* Först., *Exeristes* Först., *Iseropus* Först., *Tromera* Först.) p. 54; *ascaniae* Rud. (= *Apistephialtes perversus* Seyr., *Apistes perversus* Seyr., *Ephialtes sanguinicollis* Brauns, *E. ruficollis* Desv. nec Grav.) p. 55, PERKINS Entomologist **73.**—*E. ruficollis* see *Pimpla.*

Epimecoideus see *Theronia.*

Epiurus giranus **sp. n.** Formosa p. 203, SONAN Trans. n. H. Soc. Formosa **29** 1939.—See *Ephialtes.*

Eremochila see *Ephialtes.*

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Exenterus revision of N. American spp. 14 pp., key p. 2; *adspersus* Htg. (= *laricinus* Thoms., *oleaceus* Uch.) p. 6; *vellicatus* Czechoslovakia p. 7, *flavissimus* p. 12, *pini*, *tsugae* p. 13 U.S.A. **spp. n.**; *abruptorius* Thnb. (= *coreensis* Uch.) p. 9; *canadensis* Prov. (= *nigrifrons* Rohw.) p. 10 fig., CUSHMAN Misc. Publ. U.S. Dep. Agric. No. 354.

Exeristes see *Ephialtes.*

Exetastes rufipes Cress. (= *purpureus* Cush.); *pilosus* **sp. n.** Oregon p. 364, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

Exolytus laevigatus var. *laticinctus* Wlk. (= *laevigatus* f. *kiushuensis* Uch.) p. 111, UCHIDA Ins. mats. **14.**

Glyptogastra see *Echthromorpha.*

Gnamptopelta **gen. n.** for *Trogus obsidianator* Brullé p. 333, key to spp. p. 334; *austrina* Cress. from *Trogus* p. 335, HOPPER Trans. Amer. ent. Soc. **65** 1939.

Hemiteles samoanus **sp. n.** Samoa p. 399, FULLAWAY Proc. Hawaii. ent. Soc. **10.**—*H. chrysopae* see *Microtorus kichiyoi.*

Henicospilus kigasirae **sp. n.** Mongolia p. 28 fig., UCHIDA Ins. mats. **15.**—*H. fulvescens* **sp. n.** S. Abyssinia p. 35, MASI Miss. biol. Paese Borana **3** 1939 no. 2.

Hoplocryptus bituminosus Cush. from *Cryptoideus* p. 357, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

Ichneumon tsunekii **sp. n.** Mongolia p. 21, UCHIDA Ins. mats. **15.**—*I. diversipes* see *Listrognathus punctator*; *cirrogaster* see *Callajoppa.*

Idechthis peruviana **sp. n.** Peru p. 368, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

Idiogramma Först. (= *Macrochasma* Thoms.) p. 55, PERKINS Entomologist **73.**

Idiosomidea secunda see *Campoplegidea bellula.*

Iseropus characters, key to N. American spp. p. 52; *coelebs* Walsh redescription, corrected synonymy p. 53; *orgyiae* Ashm. p. 55, *bruneifrons* Vier. from *Pimpla*; *b.* **var. n.** *septentrionalis* U.S.A. p. 56; *californiensis* **sp. n.** U.S.A. p. 58 fig., CUSHMAN Proc. ent. Soc. Wash. **42.**—See *Ephialtes.*

Itoplectis Först. (= *Nesopimpla* Ashm.), key to N. American spp. p. 314; *brevacus* **sp. n.** U.S.A. p. 315; *conquisitor* Say (= *temnopleuris* Cushm.) p. 316; *quadricingulatus* Prov. (= *kolthoffi* Auriv., *leavitti* Cushm.) p. 321, TOWNES Ann. ent. Soc. Amer. **33.**—*I. atrocoxalis* Cress. (= *Pimpla ovalis* Thoms.) p. 362, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

Lissonota inconstans **sp. n.** California p. 157, CUSHMAN Proc. ent. Soc. Wash. **42.**

Lissonotopsis see *Poemenia.*

Listrognathus agilis **sp. n.** S. Abyssinia p. 31, MASI Miss. biol. Paese Borana **3** 1939 no. 2.—*L. punctator* Smith (= *Ichneumon diversipes* Wlk.) p. 39, UCHIDA Ins. mats. **14.**

Macrochasma see *Idiogramma.*

Macrojoppa Kriechb. (= *Aglaojoppidea* Vier.) p. 312, HOPPER Trans. Amer. ent. Soc. **65** 1939.

Meniscus longispiracularis **sp. n.** Mongolia p. 25, UCHIDA Ins. mats. **15.**

Mesoleius telarius see *Phytodietus pulcherrimus.*

Mesostenus funebris Grav. (= *Campoplex albimanus* Wlk.) p. 114, UCHIDA Ins. mats. **14.**—*M. nobilis* see *Phytodietus pulcherrimus.*

Metopius revision of Spanish spp. pp. 215–225, key to subgenn. p. 216; *velutinus* **subsp. n.** *occidentalis* p. 222; *carpetanus* **sp. n.** p. 224 Spain figs., CEBALLOS 6 Congr. int. Ent. Madrid.

Microtorus tenuibasalis **sp. n.** Japan p. 64; *chrysopae* Uch. from *Hemiteles*; *kichiyoi* **n. n.** for *H. chrysopae* Uchnec Brischke p. 66 figs., UCHIDA Ins. mats. **14.**

Neorhacodes longicauda, brevicauda **spp. n.** U.S.A. p. 526 fig., CUSHMAN Proc. U.S. nat. Mus. **88** no. 3088.

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Nesopimpla rufiventris **sp. n.** Formosa p. 204, SONAN Trans. n. H. Soc. Formosa **29** 1939.—See *Itoplectis.*

Odontotylocomnus **gen. n.** (Tylocomnini) p. 179, *pilosus* **sp. n.** Japan p. 180, UCHIDA Trans. Sapporo n. H. Soc. **16.**

Ophion revision of Spanish spp. pp. 7–32; *cortesi* p. 17, *pujoli* p. 18 **spp. n.** Spain figs., CEBALLOS Eos **14.**—*O. bermudensis* **sp. n.** Bermuda p. 367, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

Paniscus unicolor Sm. (= *takaozanus* Uch.) p. 45; *smithi* D.T. (= *gracilipes* var. *formosus* Morl., *Amebachia coreana* Uch.) p. 46, UCHIDA Ins. mats. **14.**—*P. pseudocellaris* **n. n.** for *ocellaris* Szépl. nec Thomson p. 36, MASI Miss. biol. Paese Borana **3** 1939 no. 2.

Phidias Snell. (= *Stenolabis* Kriech.) p. 55, PERKINS Entomologist **73.**

Phytodietus pulcherrimus Cress. (= *distinctus* Cress., *zonatus* Prov., *Mesostenus nobilis* Prov., *Mesoleius telarius* Prov.) p. 366, CUSHMAN Proc. U.S. nat. Mus. **88** no. 3083.

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Scambus hirticauda Prov. from *Pimpla* p. 323, TOWNES Ann. ent. Soc. Amer. **33.**

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Spindasis kutu **sp. n.** Selangor; *lohita* **subsp. n.** *milleri* Langkawi Is. p. 42, CORBET Entomologist **73.**—*S. learmondi* **sp. n.** India p. 122, TYTLER J. Bombay n. H. Soc. **42.**

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Thecla ultramarina subsp. *jezoensis*; *cognata* subsp. *jozanus* characters p. 162 figs., RILEY Entomologist **73.**

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Aporia crataegi **subsp. n.** *iranica* Iran p. 1, FORSTER Danish scient. Invest. Iran **1** 1939; **subsp. n.** *rutae* Spain p. 3 fig., BRYK Ark. Zool. **32A** no. 22.

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Papilio machaon **subsp. n.** *marbelliensis* Spain p. 2 fig., BRYK Ark. Zool. **32A** no. 22.—*P. nephelus* var. *sunatus* **n. n.** for *saturnus* Guér. nec F. p. 39, CORBET Entomologist **73.**—*P. doson albidus titipu* notes [in Japanese] pp. 1199–1201, 2 figs., HASIMOTO Bot. Zool., Tokyo **8.**—*P. machaon* **f. n.** *postevittata* Sweden p. 33 fig., EKWALL Ent. Tidskr. **61.**

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Eutychide submetallescens p. 81, *subpunctata* p. 83, **spp. n.** Argentina figs., HAYWARD An. Soc. ci. Argent. **130.**

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Heliopetes macaroides **sp. n.** Bolivia p. 139 fig., WILLIAMS & BELL Trans. Amer. ent. Soc. **66.**

Hesperia staudingeri revision of group pp. 239–254; *armoricanus* **subsp. n.** *disjuncta* W. France p. 252 figs., ALBERTI Mitt. münchn. ent. Ges. **30.**—*H. colorado* **f. n.** *leussleri* p. 373; *pahaska* **f. n.** *williamsi* p. 375 U.S.A., LINDSEY Ann. ent. Soc. Amer. **33.**—*H. fusca* see *Lerodea reedi*.

Lerema fusca (also Brazil) p. 83, *robiginosa* p. 84, **spp. n** Argentina figs., HAYWARD An. Soc. ci. Argent. **130.**

Lerodea ornata p. 76, *gemignanii* p. 79, **spp. n.** Argentina figs., HAYWARD t.c.—*L. reedi* (from *Hesperia*) **n. n.** for *fusca* Reed nec Gr. & Rob. p. 16, HAYWARD Rev. chil. H. n. **43.**

Mnestheus krexoides p. 89, *silvaticus* p. 90, **spp. n.** Argentina figs., HAYWARD An. Soc. ci. Argent. **130.**

Muschampia proto **subsp. n.** *evansi* Spain p. 25 fig., BRYK Ark. Zool. **32A** no. 22.

Nisoniades selma see *Chiomara mithrax*.

Ochlodes santarus **sp. n.** Brazil p. 1 fig., Bell Amer. Mus. Novit. No. 1064. —*O. klapperichi* **sp. n.** China p. 230, Evans Entomologist **73.**

Ocyba sula **sp. n.** Honduras p. 121 fig., Williams & Bell Trans. Amer. ent. Soc. **66.**

Pellicia herophile p. 147, *heliodora* p. 150, *hecale* p. 151, **spp. n.** Ecuador figs., Hayward Rev. chil. H. n. **43.**—*P. pollardi* **sp. n.** Br. Guiana p. 123 fig., Williams & Bell Trans. Amer. ent. Soc. **66.**

Perimeles massarus **sp. n.** Brazil p. 2 fig., Bell Amer. Mus. Novit. No. 1064.

Phanes hoffmanni **sp. n.** Brazil p. 4 fig., Bell t.c.

Pholisora aurocapilla genitalia fig.; *sinepunctis* characters p. 128, *caribbea* Panama, Costa Rica, Ecuador p. 129, *cruza* Bolivia, Peru p. 130, *corumba* Brazil, *buena* Bolivia p. 131, *naranjapata* p. 133, *huigra* p. 134 Ecuador, *madrea* p. 135, *astra* p. 138 Peru, *cartagoa* Costa Rica p. 136, *iguala* Mexico p. 137 **spp. n.** figs., Williams & Bell Trans. Amer. ent. Soc. **66.**

Poanes hobomok **f. n.** *ridingsii* Manitoba p. 83, Chermock Canad. Ent. **72.**

Prenes nyctelius Latr. (= *ares* Feld.) p. 570, Kaye Trans. R. ent. Soc. Lond. **90.**

Pyrrhopyge type *bixae* L. (= *maenas* F.) p. 410; *phidias* L. (= *zeleucus* F.) p. 411, Evans J. N.Y. ent. Soc. **48.**

Sostrata pusilla **subsp. n.** *manzanilla* Trinidad p. 568, Kaye Trans. R. ent. Soc. Lond. **90.**

Tirynthoides **gen. n.**, *eclates* (type) Colombia, Peru p. 1, *pulchres* Colombia p. 2, **spp. n.** figs., Bell Amer. Mus. Novit. No. 1064.

Zinaida fukia **sp. n.** China p. 230, Evans Entomologist **73.**

Heterocera.

Cymatophoridae, Callidulidae and Noctuidae (part) of S. Africa, Janse Moths S. Africa **3** xv and 435 pp. 1 col. pl. 102 figs. 46 pls.

Syntomidae.

Cosmosoma erubescens see *Lepidoneiva.*

Isanthrene incendiaria description pp. 456–466 figs., Travassos Bol. Biol. (N. S.) **4** 1939.

Lepidoneiva **gen. n.** for *Cosmosoma erubescens* Btlr. p. 480, further description p. 483 figs., Travassos Rev. Ent. Rio de J. **11.**

Syntomis anatolica **subsp. n.** *bithynica* Bithynia p. 359, Schwingenschuss Ent. Rdsch. **56** 1939.

Arctiidae.

Revision of Australian Arctiidae (key to genn. p. 53), Turner Proc. roy. Soc. Qd. **51** pp. 51–131.

Aclytophanes **gen. n.** for *Heliosia aedumena* Turn. p. 80, Turner Proc. roy. Soc. Qd. **51.**

Aedoea distigmata **sp. n.** Queensland p. 67, Turner t.c.

Ameleta **gen. n.**, *panochra* **sp. n.** Queensland p. 79, Turner t.c.

Anestia trissodesma see *Anomocentris* (Geometridae).

Apistosia chionora see *Hesychopa.*

Arrhythmica **gen. n.** p. 72, *semifusca* **sp. n.** W. Australia p. 73, Turner Proc. roy. Soc. Qd. **51.**

Asura key to Australian spp.; *coccinocosma* p. 96, *crocopepla* p. 97, *catameces*, *monospila*, *crocoptera* p. 98, *polyspila* p. 99, *compsodes* p. 100, **spp. n.** Australia, Turner t.c.—*A. ectophaea* see *Habrochroma.*

Atelophleps **gen. n.**, *tridesma* **sp. n.** Queensland p. 74, Turner t.c.

Ateucheta **gen. n.** for *Poliosia zetesima* Hmpsn. p. 65, Turner t.c.

Baeomorpha **gen. n.**, *cleta* **sp. n.** Queensland p. 115, Turner t.c.

Brunia intersecta see *Xylorycta porphyrinella* (Tineidae).

Caprimima key to Australian spp. p. 86; *leptosema* **sp. n.** Queensland p. 87, Turner Proc. roy. Soc. Qd. **51.**

Choorechillum distitans see *Abraxas flavimacula* (Geometridae).

Chrysoscota tanyphara **sp. n.** Queensland p. 56, Turner Proc. roy. Soc. Qd. **51.**

Estigmene cosmeta see *Heliocaes.*

Euprepia cribraria f. *bivittata* South (= ff. *anglica* Obth., *pseudobifasciata* Dannehl); f. *arenaria* notes p. 25 figs., BOWES Entomologist **73**.

Eutane trimochla **sp. n.** Queensland p. 77, TURNER Proc. roy. Soc. Qd. **51**.

Goniosema euraphota **sp. n.** Queensland p. 73, TURNER t.c.

Habrochroma **gen. n.** for *Asura ectophaea* Hamps. p. 100, TURNER t.c.

Halone Wlk. (= *Mosada* Wlk.), key to Australian spp.; *epiopsis* p. 82, *prosenes* p. 84, **spp. n.** Australia, TURNER t.c.

Heliocaes **gen. n.**, *xantholypa* **sp. n.** Queensland p. 120; *cosmeta* Low. (type) from *Estigmene* p. 121, TURNER t.c.

Heliosia aedumena see *Aclytophanes*.

Hemonia peristerodes **sp. n.** Queensland p. 119, TURNER Proc. roy. Soc. Qd. **51**.

Hesychopa **gen. n.**, *molybdica* **sp. n.** Queensland; *chionora* Meyr. (type) from *Apistosia* p. 70, TURNER t.c.

Heterallactis key to Australian spp. p. 116; *lophoptera*, *niphocephala* p. 117, *stenochrysa*, *microchrysa*, *chrysauges* p. 118, *trigonochrysa* p. 119, **spp. n.** Australia, TURNER t.c.

Heterotropa **gen. n.**, *fastosa* **sp. n.** N. Australia p. 115, TURNER t.c.

Hypocrita jacobaeae **ab. n.** *ortrudae* Germany p. 72, KOCH Z. wien. Ent. Ver. **25**.

Lambula key to Australian spp. p. 57; *pleuroptycha* **sp. n.** Queensland p. 58, TURNER Proc. roy. Soc. Qd. **51**.

Mosada see *Halone*.

Oreopola **gen. n.**, *athola* **sp. n.** Tasmania p. 59, TURNER Proc. roy. Soc. Qd. **51**.

Pallene key to Australian spp. p. 101; *homoea*, *prionosticha* p. 102, *serratilinea* p. 104, **spp. n.** Australia, TURNER t.c.

Paraonagylla **gen. n.**, *zavattarii* **sp. n.** S. Abyssinia p. 12 figs., BERIO Miss. biol. Paese Borana **3** 1939 no. 2.

Phenacomorpha **gen. n.** for *Thermeola rhabdophora* Turn. p. 65, TURNER Proc. roy. Soc. Qd. **51**.

Philenora key to Australian spp. p. 106; *thelxinoa*, *cataplex* **spp. n.** Queensland p. 108, TURNER t.c.

Poliodule poliotricha **sp. n.** Queensland p. 75, TURNER t.c.

Poliosia zetesima see *Ateucheta*.

Porphyrochrysa **gen. n.**, *dochmoschema* **sp. n.** Queensland p. 114, TURNER Proc. roy. Soc. Qd. **51**.

Preparctia romanova **ff. n.** *confluens*, *biconfluens*, *rubrobasalis* Kansu p. 54, BANG-HAAS Iris **53** 1939.

Psapharacis camptopleura **sp. n.** Queensland p. 85, TURNER Proc. roy. Soc. Qd. **51**.

Pseudophanes **gen. n.** p. 104, *melanoptera* **sp. n.** Queensland p. 105, TURNER t.c.

Scaptesyle key to Australian spp. p. 80; *tetramita* **sp. n.** N. S. Wales p. 81, TURNER t.c.

Scoliacma key to Australian spp. p. 60; *lophopyga* p. 61, *pasteophara* p. 62 **spp. n.** Australia, TURNER t.c.

Spilosoma key to Australian spp. p. 123; *nobilis*, *platycroca* **spp. n.** Australia p. 125, TURNER t.c.

Symmetrodes platymelas **sp. n.** Queensland p. 76, TURNER t.c.

Termessa key to Australian spp. p. 110; *terpnodes* p. 111, *amorpha* p. 113, **spp. n.** Australia, TURNER t.c.

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Thermeola rhabdophora see *Phenacomorpha*.

Threnosia adrasta Tasmania, *myochroa*, *agraphes*, *hypopolia* Victoria, **spp. n.** p. 63, TURNER Proc. roy. Soc. Qd. **51**.

Utetheisa idae **sp. n.** Newfoundland p. 42 figs., CLARKE Proc. ent. Soc. Wash. **42**.—*U. pulchella* **abb. n.** *nigromaculata*, *rubrior*, *rufomarginata*, *nigrolineata* p. 378, *designata*, *confluens*, *delunulata*, *duplolunulata*, *albosignata*, *separata*, *ochreomaculata* p. 379, *rubrogrisea*, *albociliata*, *depuncta*, *unipunctata*, *brunneocephala* Algeria, *brunneomarginata* Dalmatia p. 380, STETTER-STÄTTERMAYER Ent. Rdsch. **56** 1939.

NOCTUIDAE (PHALAENIDAE).

Revision of African Noctuidae, GAEDE in SEITZ Macrolep. Wld. (Engl. edn.) **15** 1937 [sic ? 1939] pp. 252–262, 1939 pp. 263–286, 2 pls.

Revision of Noctuidae of Porto Rico and Virgin Is., SCHAUS Sci. Surv. P. Rico **12** pp. 177–290.

Acontia knowltoni **sp. n.** Utah p. 199, MCDUNNOUGH Canad. Ent. **72.**

Acrapex festiva p. 350, *fuscifasciata* p. 352, *breviptera* p. 356, *simplex* p. 359, *mystica* p. 360, *minima* p. 361 **spp. n.** S. Africa; *hemiphlebia* Hmpn. from *Busseola* p. 355 figs., JANSE Moths S. Africa **3.**

Acronicta connecta **var. n.** *albina*; *sagittata* **sp. n.** Utah p. 191, MCDUNNOUGH Canad. Ent. **72.**—*A. menyanthidis* **subsp. n.** *fennica* Finland; *strigosa* **f. n.** *destrigata* p. 17; *abscondita* **f. n.** *uniformis*; *rumicis* **f. n.** *nigerrima* p. 18 Germany, LATTIN Z. wien. Ent. Ver. **25.**

Adiopa **gen. n.** for *Hadena disgrega* Möschl. p. 246, SCHAUS Sci. Surv. P. Rico **12.**

Africalpe **gen. n.** (Noctuinae) p. 348, *intrusa* **sp. n.** Libya p. 349 figs., KRÜGER Ann. Mus. Libico Stor. nat. **1** 1939.

Aleucanitis coenobita **sp. n.** Libya p. 350 fig., KRÜGER t.c.

Amphidrina sinistra **sp. n.** S. Africa p. 209 figs., JANSE Moths S. Africa **3.**

Anathetis **gen. n.** for *Caradrina atrirena* Hmpn. p. 280 (type); *melanofascia* **sp. n.** p. 282 S. Africa figs., JANSE t.c.

Anomis gundlachi **sp. n.** Cuba p. 254, SCHAUS Sci. Surv. P. Rico **12.**

Anomogyna atrata **var. n.** *ursae* N.W. Territory, Canada p. 197, MCDUNNOUGH Canad. Ent. **72.**

Antiblemma andersoni **sp. n.** P. Rico p. 261, SCHAUS Sci. Surv. P. Rico **12.**

Apamea monoglypha notes on ff. pp. 14–19; *m.* f. *aethiops* **f. n.** *contraria* England p. 18, LEMPKE Lambillionea **40.**

Apatele hamamelis **f. n.** *guyasuta*; *impressa* **f. n.** *lemmeri* Pennsylvania p. 139, CHERMOCK Proc. Penn. Acad. Sci. **14.**

Apharetra dentata figured p. 198; *purpurea* **sp. n.** Ontario p. 199, MCDUNNOUGH Canad. Ent. **72.**

Asticta mommereti **sp. n.** Eritrea p. 43, BERIO Boll. Soc. ent. ital. **72.**

Athetis aeschrioides **sp. n.** Eritrea p. 23 fig., BERIO t.c.—*A. strigata* see *Exathetis.*

Autophila luxuriosa **subsp. n.** *nigromarginata* Iran p. 201, SCHWINGENSCHUSS Ent. Z. **53** 1939.

Bendis bayamona **sp. n.** P. Rico p. 264, SCHAUS Sci. Surv. P. Rico **12.**

Bryolymnia huastea **sp. n.** P. Rico p. 203, SCHAUS t.c.

Bryophila melanoleuca see *Leucotrachea.*

Busseola hemiphlebia see *Acrapex.*

Calligraphidia **gen. n.**, type *opulenta* Mschlr. p. 281 fig., GAEDE in SEITZ **15** 1939.

Calophasia lunula notes pp. 203–205, ALLAN Entomologist **73.**

Caradrina eugraphis **sp. n.** S. Africa p. 276 fig., JANSE Moths S. Africa **3.**—*C. tauorgensis* **sp. n.** Libya p. 341 figs. KRÜGER Ann. Mus. Libico Stor. nat. **1** 1939.—*C. atrirena* see *Anathetis.*

Cardepia taylori see *Scotogramma trifolii.*

Catocala pacta **ab. n.** *defasciata* Pommerania p. 1 figs., BANNIER Ent. Z. **54.**

Centrarthra vansoni p. 184, *dentata* p. 185, *albinotata* p. 186, *nigrosignata* p. 187, *dicksoni* p. 188, *diffusa* p. 189, *pygmaea* p. 190, *albogrisea* p. 191, *monochroma*, *pectinata* p. 192, *albistriga* p. 193, *brevipectinata* p. 194, *griseola* p. 195, *similis* p. 196, *serricornis* p. 197, *albipuncta* p. 198, *modesta* p. 199, *ochrealis* p. 200, **spp. n.** S. Africa figs., JANSE Moths S. Africa **3.**

Characoma adiabunensis **sp. n.** Eritrea p. 24 fig., BERIO Boll. Soc. ent. ital. **72.**

Chitasida diplogramma **f. n.** *albescens* Transvaal p. 275, GAEDE in SEITZ **15** 1939.

Chlorocleptria jaegeri **sp. n.** California p. 147, SPERRY Canad. Ent. **72.**

Cobubatha coamona **sp. n.** P. Rico p. 208, SCHAUS Sci. Surv. P. Rico **12.**

Conistra morrisoni **f. n.** *opaca* S.W. Pennsylvania p. 139, CHERMOCK Proc. Penn. Acad. Sci. **14.**

Conservula clarki **sp. n.** S. Africa p. 98 fig., JANSE Moths S. Africa **3.**

Copiphana lunaki **sp. n.** Macedonia p. 70 figs., BOURSIN Bull. Soc. linn. Lyon **9.**

Crionica incurvata E. Africa, *diversipennis* S. W. Africa, *bifurcata* no locality **spp. n.** p. 277 figs., GAEDE in SEITZ **15** 1939.

Cycloprosopus **gen. n.** (Noctuinae); type *strigifera* Pgst. p. 280 fig., GAEDE t.c.

Dianthoecia female genitalia p. 23; *azarai* **sp. n.** p. 25; *conspurcatoides* **var. n.** *murgoba* p. 27 Spain figs., AGENJO 6 Congr. int. Ent. Madrid.

Duriga **gen. n.** for *Megatomis nealcesalis* Wlk. p. 255, SCHAUS Sci. Surv. P. Rico **12.**

Earias richinii **sp. n.** Eritrea p. 24 fig., BERIO Boll. Soc. ent. ital. **72.**

Elaphria phalega, andersoni **spp. n.** P. Rico p. 201, SCHAUS Sci. Surv. P. Rico **12.**

Epizeuxis calvaria **subsp. n.** *meridiorientalis* N. Syria p. 111, OSTHELDER Mitt. münchn. ent. Ges. **30.**

Eremobia ochroleuca **subsp. n.** *pelurica* Iran p. 167, SCHWINGENSCHUSS Ent. Z. **53** 1939.

Eriopyga adjuntasa **sp. n.** P. Rico p. 184, SCHAUS Sci. Surv. P. Rico **12.**

Ethioterpia marmorata p. 316, *lichenea* p. 317, **spp. n.** S. Africa figs., JANSE Moths S. Africa **3.**

Eublemma sydolia **sp. n.** P. Rico p. 207, SCHAUS Sci. Surv. P. Rico **12.**—*E. suava* **subsp. n.** *bithynica* (with **ab. n.** *olivaceogrisea*) Bithynia p. 281, SCHWINGENSCHUSS Ent. Z. **53.**

Euparthenos nubilis **f. n.** *unilineata* S.W. Pennsylvania p. 139, CHERMOCK Proc. Penn. Acad. Sci. **14.**

Euplexia amaranta see *Tracheplexia.*

Eutelia piratica **sp. n.** P. Rico p. 218, SCHAUS Sci. Surv. P. Rico **12.**

Euxoa mendeli discussed pp. 187–194 (with **varr. n.** *agenjoi, jimena* Spain p. 190) figs., AGENJO 6 Congr. int. Ent. Madrid.—*E. unica* p. 192, *luteotincta* p. 195, *altera* p. 196 Canada, *spumata* p. 192, *permixta* p. 193 **spp. n.**; *medialis* **var. n.** *rufosuffusata* p. 195 U.S.A. figs., MCDUNNOUGH Canad. Ent. **72.**

Exathetis **gen. n.** for *Athetis strigata* Hmpn. p. 283 figs., JANSE Moths S. Africa **3.**

Hadena disgrega see *Adiopa.*

Hadenella interrupta p. 150, *stigmata* p. 151 **spp. n.** S. Africa; *nigrivittata* Hmpn. from *Matopo* p. 153 figs., JANSE Moths S. Africa **3.**

Harmodia lepida notes pp. 126–128, WIGHTMAN Ent. Rec. **52.**

Homohadena badistriga **var. n.** *tenuistriga* Minnesota p. 197, MCDUNNOUGH Canad. Ent. **72.**

Iambia melanochlora **var. n.** *albimacula* S. Africa p. 120 fig., JANSE Moths S. Africa **3.**

Kyneria **gen. n.** (Hypeninae) p. 271, *utuadae* **sp. n.** P. Rico p. 272, SCHAUS Sci. Surv. P. Rico **12.**

Lacinipolia prognata **sp. n.** Arizona p. 197, MCDUNNOUGH Canad. Ent. **72.**

Leptamma **gen. n.** (Noctuinae), *flavalis* **sp. n.** Kamerun p. 279, GAEDE in SEITZ **15** 1939.

Leucotrachea **gen. n.** for *Bryophila melanoleuca* Hmpn. (type) p. 58, key to spp. p. 59; *leucomelanica* **sp. n.** S. Africa p. 60 figs., JANSE Moths S. Africa **3.**

Lophonotidia melanoleuca **sp. n.** S. Africa p. 41 figs., JANSE t.c.

Lyncestis mimica **sp. n.** E. Africa p. 268 fig., GAEDE in SEITZ **15** 1939.

Matopo nigrivittata see *Hadenella.*

Mazuca elegantissima **sp. n.** S. Africa p. 384 figs., JANSE Moths S. Africa **3.**

Megatomis nealcesalis see *Duriga.*

Melipotis guanicana **sp. n.** P. Rico p. 238, SCHAUS Sci. Surv. P. Rico **12.**

Mimophisma forbesi **sp. n.** Cuba p. 240, SCHAUS t.c.

Neostichtis **gen. n.** for *Parastichtis nigricostata* Hampn. p. 55 figs., JANSE Moths S. Africa **3.**

Oligia confusa **sp. n.** S. Africa p. 87 figs., JANSE t.c.

Oncotibialis **gen. n.** (Acronictinae) p. 201, *flava* **sp. n.** S. Africa p. 202 figs., JANSE t.c.

Ozarba cinda **sp. n.** P. Rico p. 210, SCHAUS Sci. Surv. P. Rico **12.**

Paracroria major **sp. n.** S. Africa p. 168 figs., JANSE Moths S. Africa **3.**

Parastichtis nigricostata see *Neostichtis.*

Phytometra phocea **f. n.** *bryki* Mt. Elgon p. 258 fig., GAEDE in SEITZ **15** 1937 [? err. for 1939].

Porphyrinia obscura, semiochrea p. 343, *aliena* p. 344, **spp. n.** Libya figs. KRÜGER Ann. Mus. Libico Stor. nat. **1** 1939.

Procus versicolor notes p. 60, DE WORMS Entomologist **73.**—*P. literosa* **ab. n.** *aethalodes* England p. 136, RICHARDSON Entomologist **73.**

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Pseudotolna leucomelas **sp. n.** Kamerun p. 282, GAEDE in SEITZ **15** 1939.

Pseudyrias watsoni **sp. n.** P. Rico p. 234, SCHAUS Sci. Surv. P. Rico **12.**

Rhyacia leroyi **sp. n.** Algeria p. 48, LUCAS Lambillionea **40.**

Scodionyx balboi **sp. n.** Libya p. 346 figs., KRÜGER Ann. Mus. Libico Stor. nat. **1** 1939.

Scotogramma trifolii Rott.(=*Cardepia taylori* Roths.) p. 74, WILTSHIRE Ent. Rec. **52.**

Septis ampliata **sp. n.** Montana p. 199, MCDUNNOUGH Canad. Ent. **72.**

Sesamia albicolor p. 376, *sylvata* p. 377, **spp. n.** S. Africa figs., JANSE Moths S. Africa **3.**

Syneda albifasciata **sp. n.** Somaliland p. 269 fig., GAEDE in SEITZ **15** 1939.

Taeniocampa lepida **ab. n.** *nigra* England sep. pp. 220, 225, TURNER Ent. Rec. **52.**

Tarache luctuosa **subsp. n.** *speciosissima* Spain p. 28 fig., BRYK Ark. Zool. **32A** no. 22.

Taviodes tamsi **sp. n.** Gold Coast p. **267 fig.,** GAEDE in SEITZ **15** 1939.

Trachea lucia see *Tracheplexia.*

Tracheplexia **gen. n.** for *Euplexia amaranta* Feld. p. 71 (type); *lucia* Feld. from *Trachea* (with **ab. n.** *albimacula*) p. 74 S. Africa figs., JANSE Moths S. Africa **3.**

Zale obliqua discussed p. 200; *confusa* **sp. n.** Arkansas p. 201, MCDUNNOUGH Canad. Ent. **72.**—*Z. erilda* **sp. n.** P. Rico p. 230, SCHAUS Sci. Surv. P. Rico **12.**

LYMANTRIIDAE.

Albarracina warionis **f. n.** *autumnalis* Libya p. 325 figs., KRÜGER Ann. Mus. Libico Stor. nat. **1** 1939.

Dasychira dehra Collnt. a seasonal f. of *grotei* Mo. p. 93, GARDNER Indian J. Ent. **2** pt. I.—*D. pudibunda* **ab. n.** *bicolor* England p. 86 fig., COCKAYNE Ent. Rec. **52.**

Ocneria alfierii **sp. n.** Libya p. 324 figs., KRÜGER Ann. Mus. Libico Stor. nat. **1** 1939.—*O. detrita* **subsp. n.** *orientis* Bithynia p. 360, DANIEL Ent. Rdsch. **56** 1939.

SPHINGIDAE.

Sphingidae of the Cayman Is., JORDAN Ent. mon. Mag. **76** pp. 275–277.

Notes on Brazilian Sphingidae, OITICICA Bol. Biol. (N.S.) **4** 1939 pp. 269–277.

Adhemarius **n. n.** for *Amplypterus* Roths. & Jord. p. 271, OITICICA Bol. Biol. (N.S.) **4** 1939.

Amplypterus see *Adhemarius.*

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Asynarchus lapponicus Zett. (= *fusorius* McL., *Anabolia modesta* Hag.) p. 48, FORSSLUND Entomologist **73.**

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Colpotaulius submonilifer Wlk. from *Limnephilus* p. 137 figs., BETTEN & MOSELY t.c.—*C. perpusillus* see *Anabolina.*

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Paduniella capensis **sp. n.** S. Africa p. 655 fig., Barnard t.c.

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Myrmeleon formicarius compared with *Euroleon nostras* p. 210 figs., EGLIN Verh. naturf. Ges. Basel **50** 1939.—*M. barbarus* see *Indophanes*; *wilsoni* see *Eidoleon.*

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Cuterebra taxonomic characters of larvae pp. 33–43 figs., KNIPLING & BRODY J. Parasit. **26**.

Hypoderma alcis **sp. n.** Europe p. 577, ULLRICH Dtsch. tierärztl. Wschr. **1936** 1936.—*H. diana* Br. (= *alcis* Ullr.) p. 551, EICHLER Z. Parasitenk. **10** 1938.

Neoestromyia **gen. n.** (as *Neogastrophyllus* on plate) p. 249, *kienyangensis* **sp. n.** E. China p. 250 figs., OUCHI J. Shanghai Sci. Inst. (3) **4** 1939.

Neogastrophyllus see *Neoestromyia*.

TACHINIDAE.

Puparia of Indian Tachinidae (key p. 228), GARDNER Ind. For. Rec. (N.S.) Ent. **6** pp. 227–251, 3 pls.

British Tachinidae, second supplement, WAINWRIGHT Trans. R. ent. Soc. Lond. **90** pp. 411–448, 11 figs.

Actinoplagia **gen. n.**, *koehleri* **sp. n.** Argentina p. 234 fig., BLANCHARD An. Soc. ci. Argent. **129**.

Agaedioxenis **subgen. n.** see *Gaedioxenis*.

Andinomyia nigra, rufomaculata **spp. n.** Peru p. 216, VIMMER & SOUKUP Bol. Mus. H. n. " Javier Prado " **4** no. 13.

Aphriosphyria sordida Aldr. from *Peleteria* p. 225, BLANCHARD An. Soc. ci. Argent. **129**.

Atricholyga **gen. n.** for *Tricholyga impexa* Villen. p. 9, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.

Carcelia aequalis **sp. n.** Natal p. 1, VILLENEUVE t.c.

Chaetoandinomyia **gen. n.** pp. 212, 218, *townsendi* **sp. n.** (with **var. n.** *complanata*) Peru p. 218, VIMMER & SOUKUP Bol. Mus. H. n. " Javier Prado " **4** no. 13.

Chaetoepalpus coquilleti **sp. n.** Peru p. 218, VIMMER & SOUKUP t.c.

Chaetolixophaga **gen. n.** (Trypherini), *laspeyresiae* **sp. n.** Argentina p. 241 fig., BLANCHARD An. Soc. ci. Argent. **129**.

Cololeskia **gen. n.** p. 2, *pallida* **sp. n.** S. Rhodesia p. 3, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.

Dejeania nigrothoracica **sp. n.** Peru p. 219, VIMMER & SOUKUP Bol. Mus. H. n. " Javier Prado " **4** no. 13.

Dyshypostena **gen. n.** p. 4, *tarsalis* **sp. n.** Rhodesia p. 5, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.

Epalpus flavipes **sp. n.** Peru p. 220, VIMMER & SOUKUP Bol. Mus. H. n. " Javier Prado " **4** no. 13.

Epicoronimyia **gen. n.** for *Epigrymyia mundelli* Blanch. p. 245, BLANCHARD An. Soc. ci. Argent. **129**.

Epigrymyia mundelli see *Epicoronimyia*.

Euphorocera eurotae see *Plagiotachina*.

Exorista nemorum characters p. 412; *glirina* p. 416, *glauca, ingens* p. 417, *cotei* p. 420 genitalia; *vicina* **sp. n.** Britain p. 419 figs., WAINWRIGHT Trans. R. ent. Soc. Lond. **90**.

Gaediopsis punoensis **sp. n.** Peru p. 221, VIMMER & SOUKUP Bol. Mus. H. n. " Javier Prado " **4** no. 13.

Gaedioxenis (*Agaedioxenis* **subgen. n.**) *brevicornis* S. Rhodesia p. 1, *propinqua* Natal p. 2 **spp. n.**, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.

Gimnojurinella **gen. n.** pp. 210, 223, VIMMER & SOUKUP Bol. Mus. H. n. " Javier Prado " **4** no. 13.

Gonia revision of N. American spp. pp. 336–362, characters, key to ♂♂ p. 340; *grandipulvilli* p. 345, *discalis* p. 347, *albagenae* p. 349, *tenuiforceps* p. 356 **spp. n.** Canada; *distincta* redescription p. 352 figs., MORRISON Canad. J. Res. **18** (D).

Itarchytas **gen. n.**, *pseudodaemon* **sp. n.** Argentina p. 225 fig., BLANCHARD An. Soc. ci. Argent. **129**.

Minthotachina **gen. n.**, *miscella* **sp. n.** Trinidad p. 227, TOWNSEND Rev. Ent. Rio de J. **5** 1935.

Myxhypostena **gen. n.**, *consobrina* **sp. n.** S. Nigeria p. 6, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.

Ochromelinda cuthbertsoni **sp. n.** S. Rhodesia p. 7, VILLENEUVE t.c.

Oswaldia villeneuvei **sp. n.** Britain p. 428, WAINWRIGHT Trans. R. ent. Soc. Lond. **90.**

Parabothria **gen. n.** p. 210, VIMMER & SOUKUP Bol. Mus. H. n. "Javier Prado" **4** no. 13.

Parabrachycoma **gen. n.**, *ruficauda* **sp. n.** Argentina p. 229 fig., BLANCHARD An. Soc. ci. Argent. **129.**

Peleteria sordida see *Aphriosphyria.*

Phorinia atypica Curr. a subsp. of *verritus* Wlk. p. 10, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.

Phorocera key to African spp. p. 1; *ugandana* p. 3, *bequaerti* p. 6, *zenia* p. 10 Uganda, *sadista* p. 4, *selecta* p. 6, *ethelia* p. 9, *majestica* p. 10 Natal, *cuthbertsoni*, *nudapex* p. 5, *solitaria* p. 6, *setosaria* p. 8, *clausa* p. 9, *setigena* p. 11 S. Rhodesia, *varicornis* p. 7, *metro* p. 12 Victoria Falls, *nitidicauda* p. 7, *setertia* p. 8, *tetra* p. 12 S. Africa, *setosina* Tanganyika, S. Rhodesia, Natal p. 9, *rufolateralis* p. 11, *nyasa* p. 13 Nyasaland, *gnu* Liberia p. 11, **spp. n.**, CURRAN Amer. Mus. Novit. No. 1063.

Phryxe longicauda p. 423, *latilobata* p. 425, **spp. n.** Britain figs., WAINWRIGHT Trans. R. ent. Soc. Lond. **90.**

Plagiotachina eurotae Blanch. from *Euphorocera* p. 245, BLANCHARD An. Soc. ci. Argent. **129.**

Prosenactia **gen. n.** p. 237, *liebermanni* **sp. n.** Argentina p. 238 fig., BLANCHARD t.c.

Sturmia halli Curran (= *rhodesiensis* **sp. n.** S. Rhodesia p. 16) figs., JONES Ann. Rep. Mazoe Citrus exptl. Sta. **1937** [1939].

Synhypostena **gen. n.** p. 6, *pedestris* **sp. n.** Belg. Congo p. 7, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.

Tricholyga impexa see *Atricholyga.*

Zenilliana devastator **f. n** *invaginata* Belg. Congo p. 9, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48

CALLIPHORIDAE
(including SARCOPHAGIDAE).

Sarcophaginae and allies of N. York, I, II (key p. 203), HALLOCK J. N.Y ent. Soc. **48** pp. 127–152, 3 pls., pp. 201–225, 3 pls.

Calliphoridae of Australia (key to genn. p. 133), HARDY Proc. roy. Soc. Qd. **51** pp. 133–146.

Calliphoridae of India and remainder of Oriental Region, SENIOR-WHITE, AUBERTIN & SMART Fn. Brit. India, Dipt., Calliphor. **6** xiii & 288 pp. 1 map 152 figs.

Corrections to Senior-White, Aubertin & Smart's Indian Calliphoridae, TOWNSEND J. N. York ent. Soc. **48** pp. 397–400.

Aphyssura **gen. n.** for *Melinda minuta* Mall. p. 139, HARDY Proc. roy. Soc. Qd. **51.**

Avihospita braueri see *Protocalliphora sordida.*

Bengalia key to Oriental spp. p. 84; *hobbyi* **sp. n.** Borneo, Sarawak p. 88 fig., SENIOR-WHITE, AUBERTIN & SMART Fn. Brit. India, Dipt. **6** Calliph.

Booponus key to Oriental spp. p. 78; *aldrichi* **sp. n.** Burma p. 81 fig., SENIOR-WHITE, AUBERTIN & SMART t.c.

Calliphora key to Australian subgenn. and spp. of subgen. *Onesia* p. 141; *dispar* Macq. (= *apicalis* Mall.); *pubescens* Macq. (= *australica* Mall., *cyanescens* Loew); *ruficornis* Wlk. (= *metallica* Mall.); *assimilis* Mall. (= *pubescens* J. & H. (pt.), *dispar* Mall.); *minor* Mall. (= *clausa* Bez.) p. 142; *clausa* Macq. (= *pusilla* Macq., *accepta* Mall.) p. 143, HARDY Proc. roy. Soc. Qd. **51.**

Catapicephala key to Oriental spp. p. 103; *pattoni* **sp. n.** India p. 105 fig., SENIOR-WHITE, AUBERTIN & SMART Fn. Brit. India, Dipt. **6** Calliph.

Doringia **gen. n.** (Sarcophagidae) for *Nemorea acridiorum* Wey. p. 85, WEYENBERGH Anales de Agricultura **3** 1875.—*D. subandina* see *Phaesarcodexia.*

Helicobia australis **sp. n.** Australia p. 50 fig., JOHNSTON & TIEGS Proc. roy. Soc. Qd. **33** 1922.

Lucilia key to Oriental spp. p. 47; *andrewsi* **sp. n.** Christmas I. p. 57 figs., SENIOR-WHITE, AUBERTIN & SMART Fn. Brit. India, Dipt. **6** Calliph.

Melinda minuta see *Aphyssura.*

Metallea key to Australian spp.; *incisuralis* Macq. (= *insularis* Mall.); *cuprea* Wlk. (= *illingworthi* Mall., *Rhynchomyia gracilipalpis* Macq., *R. tigrina* Big.) p. 136, HARDY Proc. roy. Soc. Qd. **51**.

Ocrisia testacea see *Pollenia townsendi*.

Parasarcophaga **subgen. n.** see *Sarcophaga*.

Phaesarcodexia subandina Blanch. from *Doringia* p. 224, BLANCHARD An. Soc. ci. Argent. **129**.

Pollenia key to British spp. p. 441; *excarinata*, *carinata* **spp. n.** p. 442; *rudis* **subsp. n.** *angustigena* p. 444 Br. Isles, WAINWRIGHT Trans. R. ent. Soc. Lond. **90**.—*P. tasmanensis* Macq. (= *stolida* Mall.); *calamisessa* Hardy (= *stolida* Mall.) p. 140, HARDY Proc. roy. Soc. Qd. **51**.—*P. townsendi* **n. n.** for *Ocrisia testacea* Towns. p. 119; *monsdulitae* **sp. n.** Borneo p. 131 figs., SENIOR-WHITE, AUBERTIN & SMART Fn. Brit. India, Dipt. **6** Calliph.

Protocalliphora discussion and list of German spp. pp. 359–364; *sordida* Zett. (= *Avihospita brauerí* Hend.) p. 361 figs., HENNIG Arb. physiol. angew. Ent. **6** 1939.

Rhinia subapicalis Macq. synonymy p. 134; *cribellata* Bez. (= *Stomorhina subapicalis* Mall.) p. 135, HARDY Proc. roy. Soc. Qd. **51**.

Rhynchomyia gracilipalpis, *tigrina* see *Metallea cuprea*.

Sarcophaga impatiens further description p. 52; *tryoni* p. 54, *alpha* p. 57, *beta* p. 58, *gamma* p. 60, *delta* p. 62, *eta* p. 65, *zeta* p. 76, *theta* p. 78, *iota* p. 79, *kappa* p. 81, *omikron* p. 82, *sigma* p. 84, *bancrofti* p. 85 (*Parasarcophaga* **subgen. n.**), *omega* p. 86 **spp. n.** Australia; *irrequieta* Wlk. (= *ochripalpis* Thoms., *frontalis* J. & B.) p. 63; *misera* var. *dux* Thoms. (= *subtuberosa* Park.) p. 70 figs., JOHNSTON & TIEGS Proc. roy. Soc. Qd. **33** 1922.—*S. fergusonina* **sp. n.** Queensland p. 145, HARDY Proc. roy. Soc. Qd. **51**.—*S.* key to Oriental spp. p. 212; *baranoffi* **n. n.** for *formosana* Bar. nec Sen.-Wh. p. 228 figs., SENIOR-WHITE, AUBERTIN & SMART Fn. Brit. India, Dipt. **6**, Calliph.

Stomorhina key to Oriental spp. p. 190; *fulvohumera* Borneo, Sarawak p. 195, *mallochi* India p. 204, **spp. n.** figs., SENIOR-WHITE, AUBERTIN & SMART Fn. Brit. India, Dipt. **6** Calliph. —*S. subapicalis* see *Rhinia cribellata*.

Strongyloneura key to Oriental spp. p. 150; *pseudonepalana* p. 162, *pseudonebulosa* p. 163, *zeylanica* p. 164, *pseudocoerulana* p. 165, *yerburyi* p. 166, **spp. n.** Ceylon figs., SENIOR-WHITE, AUBERTIN & SMART t.c.

MUSCIDAE, ANTHOMYIIDAE.

Coenosiinae of Ruwenzori Expedition 1934–35, VAN EMDEN Ruwenzori Exped. 1934–35 **2** pp. 91–255, 82 figs.

Acridomyia canadensis Manitoba p. 1, *fumisquama* N. Carolina p. 2, **spp. n.** figs., SNYDER Amer. Mus. Novit. No. 1076.

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Andersonosia **n. n.** for *Andersonia* Mall. nec Boul.; *velutinifrons* ♂ p. 143; *semifumosa* **sp. n.** Uganda p. 145 figs., VAN EMDEN t.c.

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Brevicosta africana ♂ p. 246 fig., VAN EMDEN t.c.

Caricea keys to Ethiopian spp. pp. 157, 164, 176, 180, 186, 196, 211, 221, 234; *transversalis* p. 160, *scutellaris* p. 162, *gracilipes* p. 165, *edwardsi* p. 171.

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Glossina palpalis distribution of subspp. in Belg. Congo, morphology pp. 136–149 figs., ZUMPT Rev. Zool. Bot. afr. **23.**

Graphomyia schoutedeni **sp. n.** Belg. Congo p. 8, VILLENEUVE Bull. Mus. H. n. Belg. **15** 1939 no. 48.—*G. tienmushanensis* **sp. n.** E. China p. 233 figs., ÔUCHI J. Shanghai Sci. Inst. (3) **4** 1939.

Hammomyia see *Leucophora.*

Helina key to allied genn. p. 1, key to *marginata* group ; *marginata* p. 2, *crepedoseta* p. 3 Guatemala, *compressifrons* Panama p. 4 (with **var. n.** *fulvapoda* Guatemala p. 5), *prolatifrons* Panama, *crocea* p. 6, *pleuraseta* p. 7 Brazil **spp. n.** ; *angustipennis, coronata* re-descriptions p. 8, SNYDER Amer. Mus. Novit. No. 1060.

Hylephila Rond. status discussed p. 339, HUCKETT J. N.Y. ent. Soc. **48.**

Leucophora R.-D. (= *Hammomyia* Rond.) p. 339, revision of N. American spp. pp. 335–355, key p. 340 ; *fusca* p. 353, *annexa* p. 355 **spp. n.** U.S.A. figs., HUCKETT t.c.

Lispocephala key to Ethiopian spp. p. 245 ; *miki* Strobl (= *sexnotata* Ad.) p. 246, VAN EMDEN Ruwenzori Exped. 1934–35 **2.**

Musca albomaculata, angustifrons, domestica, humilis compared p. 144, SÉGUY Miss. biol. Paese Borana **3** 1939 no. 2.

Pectiniseta obscura **sp. n.** Uganda p. 243, VAN EMDEN Ruwenzori Exped. 1934–35 **2.**

Proboscimyia revision of N. American spp. pp. 356–358, key p. 356 ; *brevis* **sp. n.** N. York p. 357 figs., HUCKETT J. N.Y. ent. Soc. **48.**

Pygophora key to Ethiopian spp. p. 242, VAN EMDEN Ruwenzori Exped. 1934–35 **2.**

Muscidae Acalyptratae.

SCIOMYZIDAE

(DRYOMYZIDAE, NEOTTIOPHILIDAE, HELCOMYZIDAE, CHAMAEMYIIDAE, OCHTHIPHILIDAE.)

N. American genn. of Chamaemyiinae, a subfam. of Sciomyzidae, MALLOCH Ann. Mag. n. H. (11) **6** pp. 265–274.

Chaetoleucopis **subgen. n.** see *Leucopis.*

Chamaemyia polystigma further description ; *fumicosta* **sp. n.** Arizona p. 267, MALLOCH Ann. Mag. n. H. (11) **6.**

Leucopiola **subgen. n.** see *Leucopis.*

Leucopis (*Leucopiola, Chaetoleucopis* **subgenn. n.**) p. 102, FREY Comment. biol. **6** no. 1 1936.—*L. ocellaris* p. 272, *bivittata, verticalis* p. 273, **spp. n.** U.S.A., MALLOCH Ann. Mag. n. H. (11) **6.**

Plunomia key to N. American spp. ; *transversa* U.S.A. p. 270, *obtusa* Alaska, *tibialis* p. 271, *flavicornis* p. 272 U.S.A. and Canada, **spp. n.**, MALLOCH t.c.

Pseudodinia key to N. American spp. p. 268 ; *varipes* Coq. (= *pruinosa* Mel.) ; *antennalis* **sp. n.** U.S.A. p. 263, MALLOCH t.c.

SAPROMYZIDAE (LAUXANIIDAE) (including CELYPHIDAE).

Dioides fuscoapicata **sp. n.** Solomon Is. p. 134 fig., MALLOCH Novit. zool. **42.**

Homoneura setitibia **n. n.** for *praeapicalis* Shew. nec Mall.; *cactifera* **n. n.** for *armata* Shew. nec Mall. p. 86, SHEWELL Canad. Ent. **72.**—*H.* key p. 135; (*Solomonia* **subgen. n.**) *leveri* pp. 135, 138, *atrifacies* pp. 136, 139, *immaculiventris*, *russelli* pp. 136, 140, *suspensa* pp. 136, 141, *subnuda* p. 137, 141, *notativentris* pp. 137, 142, *diversa* pp. 138, 143, **spp. n.** Solomon Is. fig., MALLOCH Novit. zool. **42.**—*H. cheesmanae* **sp. n.** New Guinea p. 21; *nigrifrons* further description p. 22 figs., MALLOCH Proc. R. ent. Soc. Lond. (B) **9.**

Minettia sexmaculata **sp. n.** New Guinea p. 20 fig., MALLOCH t.c.

Solomonia **subgen. n.** see *Homoneura.*

Spaniocelyphus hangchowensis **sp. n.** E. China p. 245 figs., ŌUCHI J. Shanghai Sci. Inst. (3) **4** 1939.

Steganopsis tripunctifacies p. 132, *varimana* p. 133, **spp. n.** Solomon Is. figs., MALLOCH Novit. zool. **42.**

Trypaneoides confusa **sp. n.** Solomon Is. pp. 136, 145 fig., MALLOCH t.c.

TRYPETIDAE.

Brachiopterna **gen. n.**, *katonae* **sp. n.** [*nom. nud.*] E. Africa p. 153, BEZZI Bull. ent. Res. **15** 1924; (= *Cyanodesmops* Mro.) type *ornithomorpha* Mro. p. 162, MUNRO Ann. Mus. hung. **29** 1935.

Cyanodesmops see *Brachiopterna.*

Dacus illotus p. 3, *labeculatus* p. 5 *verecundus* p. 10, *fasciolatus* p. 12 *nanus* p. 15, *tristis* p. 21, **spp. n.** Belg. Congo; spp. notes pp. 7–26 figs., COLLART Bull. Mus. H. n. Belg. **16** no. 13.

Euaresta (*Setigeresta* **subgen. n.** p. 50 note), BENJAMIN Tech. Bull. U.S. Dep. Agric. No. 401 1934.

Myopites blotii Breb. (= *hebe* Newm.) p. 78; *frauenfeldi*, *eximia* characters p. 79, COLLIN Ent. Rec. **52.**

Ocnerioxyna **gen. n.** p. 138, *hemilea* **sp. n.** S. Abyssinia p. 139 figs., SÉGUY Miss. biol. Paese Borana **3** 1939 no. 2.

Parafreutreta oriens p. 78, *fulvialis* p. 79, *regalis* p. 80, **spp. n.** S. Africa figs., MUNRO J. ent. Soc. S. Afr. **3.**

Paroxyna suboculata, *zavattarii* **spp. n.** S. Abyssinia p. 140 fig., SÉGUY Miss. biol. Paese Borana **3** 1939 no. 2.

Phaeospilodes bambusae **sp. n.** S. India p. 322 fig., HERING Ann. Mag. n. H. (11) **5.**

Setigeresta **subgen. n.** see *Euaresta.*

Trypanea dumosa **sp. n.** S. Africa p. 85, MUNRO J. ent. Soc. S. Afr. **3.**

Xanthaciura unipuncta redescription pp. 425–427 figs., DE SOUZA LOPES Livro Hom. Prof. Almeida 1939.

ORTALIDAE

(OTITIDAE, PHYTALMIIDAE, PLATYSTOMIDAE, PYRGOTIDAE, TANYPEZIDAE, RICHARDIIDAE, ULIDIIDAE).

Revision of Otitidae and Phytalmiidae from Solomon Is., MALLOCH Ann. Mag. n. H. (11) **6** pp. 66–98, 7 figs.

Ulidiidae of Palaearctic Region, HENNIG in LINDNER Flieg. palaearct. Reg. **45** 34 pp. 6 pls. 12 figs.

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Giraffomyia key to Solomon Is. spp. p. 92; *solomonensis* p. 93, *regularis* p. 95 (with **var. n.** *perfecta* p. 96), *irregularis* p. 97, **spp. n.** Solomon Is. figs., MALLOCH t.c.

Lamprogaster austeni Sharp (= *xanthoptera* Hend.) p. 76, MALLOCH t.c.

Lophoplatystoma meleagris **sp. n.** S. Abyssinia p. 136 fig., SÉGUY Miss. biol. Paese Borana **3** 1939 no. 2.

Rivellia fulvescens **sp. n.** Solomon Is. p. 72 fig., MALLOCH Ann. Mag. n. H. (11) **6.**—*R. marina* **sp. n.** Admiralty Is. p. 19 fig., MALLOCH Proc. R. ent. Soc. Lond. (B) **9.**

Scholastes altapensis **sp. n.** New Guinea, Admiralty Is. p. 20, MALLOCH t.c.—*S. cinctus* Guér. (= *whitneyi* Curr.); *bimaculatus* Hend. (= *solomonensis* Curr.) p. 73; *sexvittatus* Wlk. (= *distigma* Hend.) p. 74, MALLOCH Ann. Mag. n. H. (11) **6.**

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Elachiptera indistincta Beck. (= *brevicornis* Brun.) p. 421, SABROSKY Ann. Mag. n. H. (11) **6.**

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Leucorrhinia patricia **sp. n.** Ontario p. 12 figs., WALKER Canad. Ent. **72.**

Libellago miae **sp. n.** Ceylon p. 84; a synonym of *adami* Fras. p. 117 figs., LIEFTINCK Spolia zeylan. **22.**

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Miocora key to spp. p. 417 ; *pellucida* **sp. n.** Peru p. 418 figs., KENNEDY Ann. ent. Soc. Amer. **33.**

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Pacificothemis **gen. n.** p. 10, *esakii* **sp. n.** Caroline Is. p. 12 figs., ASAHINA Tenthredo **3.**

Palaemnema joanetta **sp. n.** Panama p. 626 figs., KENNEDY Ann. ent. Soc. Amer. **33.**

Pantala further description ; *flavescens* nymph p. 660 figs., BARNARD Ann. S. Afr. Mus. **32.**

Pentathemis membranulata venation pp. 17–18 fig., FRASER Proc. R. ent. Soc. Lond. (B) **9.**

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Rimanella arcana male, nymph pp. 174–178 figs., GEIJSKES Rev. Ent. Rio de J. **11.**

Stenocora **gen. n.**, *percornuta* **sp. n.** Ecuador p. 411 figs., KENNEDY Ann. ent. Soc. Amer. **33.**

Teinobasis dentifer, bicolor see *Amphicnemis.*

DERMAPTERA.

Key to French Dermaptera, PERRIER Fn. France tabl. syn. ill. 2nd Ed. **3** 1934 pp. 79–81, 11 figs.

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Anechura fedtshenkoi see *Oreasiobia.*

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Keys to French Orthoptera, PERRIER Fn. France tabl. syn. ill. 2nd Ed. **3** 1934 pp. 81–112, 108 figs.

Identification of eggs of mid-wes ern grasshoppers by chorionic sculpturing, TUCK & SMITH Tech. Bull. Kansas agric. Exp. Sta. No. 48, 1939 39 pp. 11 pls. 2 figs.

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Aristiger **n. n.** for *Plumiger* Heb. nec Horv. p. 139, HEBARD Ent. News **51.**

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Bionoblatta **n. n.** for *Bion* Rehn nec Camb. p. 60, REHN Ent. News **51.**

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Dictyoblattella **n. n.** for *Dictyoblatta* Han. nec Handl. p. 173, UVAROV Ann. Mag. n. H. (11) **5.**

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Philodontomacha **n. n.** for *Phileciton* Chop. nec Wasm. p. 115, Uvarov Ann. Mag. n. H. (11) **6**.—See *Myrmoblattina*.

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Sigmella **n. n.** for *Sigmoidella* Hebard nec Cushm. & Ozana (Prot.) p. 236, Hebard Ent. News **51**.

Sigmoidella see *Sigmella*.

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Tepperiana **n. n.** for *Tepperia* Kby. nec Lea (Col.) p. 379, Uvarov Ann. Mag. n. H. (11) **6**.

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Bisanthe menyharthi, modesta characters pp. 173–175, La Greca Mem. Soc. ent. ital. **18**.

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Decimiana **n. n.** for *Decimia* Stål nec Wlk. p. 173, Uvarov Ann. Mag. n. H. (11) **5**.

Episcopomantis **n. n.** for *Episcopus* Sauss. nec Briss. p. 173, Uvarov t.c.

Episcopus see *Episcopomantis*.

Hoplocorypha salfi **sp. n.** S. Abyssinia p. 262 figs., La Greca Miss. biol. Paese Borana **3** 1939 no. 2.

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Idolum see *Idolomantis*.

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Leptomantis see *Leptomantella*.

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Megacanthopus see *Macracanthopus*.

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Parathespis Sauss. (= *Paradanuria* Sauss.) p. 115, Uvarov Ann. Mag. n. H. (11) **6**.

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Gryllacridae.

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Gryllidae of Borneo, Chopard Ent. mon. Mag. **76** pp. 192–204, 21 figs.

Notes on Pentacentrinae, Hubbell Pub. Carnegie Instn. Wash. **491** 1938 pp. 200–204.

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Duolandrevus pubescens ♀ p. 193, Chopard Ent. mon. Mag. **76**.

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Fryerius **n. n.** for *Fryeria* Bol. nec Gray p. 174, Uvarov Ann. Mag. n. H. (11) **5**.

Gryllomorpha canariensis **sp. n.** Teneriffe p. 172, CHOPARD Ann. Soc. ent. Fr. **108**.

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Kempiola **n. n.** for *Kempiella* Chop. nec Mathews p. 175, UVAROV Ann. Mag. n. H. (11) **5**.

Larandella **n. n.** for *Larandopsis* Chop. 1934 nec 1924 p. 175, UVAROV t.c.

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Malgasia **n. n.** for *Voeltzkowia* Sauss. nec Boett. (Rept.) p. 379, UVAROV Ann. Mag. n. H. (11) **6**.

Metiochodes fulvus **sp. n.** Borneo p. 195, CHOPARD Ent. mon. Mag. **76**.

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Myrmophilellus **n. n.** for *Myrmegryllus* Chop. nec Fieb. p. 113, UVAROV Ann. Mag. n. H. (11) **6**.

Nemobius Serv. (= *Pronemobius* Bol., *Pantelinus* Bol., *Heteronemobius* Krauss) p. 117, UVAROV t.c.

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TETTIGONIIDAE.

Discussion of Meconeminae (list of included genn. p. 84) & Listroscelinae. ZEUNER J. Soc. Br. Ent. **2** pp. 83–84.

Afromecopoda **n. n.** for *Sthenaropoda* Karsch nec Brongn. p. 378, UVAROV Ann. Mag. n. H. (11) **6**.

Antaxius chopardi **sp. n.** France p. 49; key to French spp. p. 51 figs., MORALES AGACINO Bol. Soc. esp. H. n. **36** 1936.

Aulocrania **n. n.** for *Mortonia* Fritze nec Gray p. 113, UVAROV Ann. Mag. n. H. (11) **6**.

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Daedalellus **n. n.** for *Daedalus* Redt. nec Rouault p. 173, UVAROV op. cit. (11) **5**.

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Dasylistroscelis **gen. n.** p. 152, *neivai* **sp. n.** Brazil p. 153 figs., DE MELLO-LEITÃO Rev. Ent. Rio de J. **11**.

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Gabonella **n. n.** for *Gabonia* Bol. nec Jac. p. 174, UVAROV Ann. Mag. n. H. (11) **5**.

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Gatunella **n. n.** for *Gatunia* Heb. nec Rathb. p. 174, UVAROV Ann. Mag. n. H. (11) **5**.

Gatunia see *Gatunella*.

Gryporhynchium **n. n.** for *Gryporhynchus* Redt. nec Nordm. p. 174, UVAROV Ann. Mag. n. H. (11) **5**.

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Pelerinus Bol. synonymy, description p. 7, key; *planicolus* p. 8, *collinus* p. 12, *monticolus* p. 13 **spp. n.** Ceylon figs., HENRY Proc. R. ent. Soc. Lond. (B) **9.**

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Revision of Chinese Podismae, CHANG Notes Ent. chin., Mus. Heude **7** pp. 31–97, 3 pls.

Revision of Australian Cyrtacanthacrinae, SJÖSTEDT 6 Congr. int. Ent. Madrid pp. 173–180.

Internal genitalia in female Thrinchinae, Batrachotetriginae, Pamphaginae and Pyrgomorphinae, SLIFER J. Morph. **66** pp. 175–195, 5 pls. 2 figs.

Revision of Cyrtacanthacrinae of S. China, TINKHAM Lingnan Sci. J. **19** pp. 269–382, 7 pls.

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Ecphanthacris **gen. n.** p. 328, *mirabilis* **sp. n.** S. China p. 329 figs., TINKHAM Lingnan Sci. J. **19**.

Elaeochlora pulchella notes p. 39 figs., LIEBERMANN Rev. chil. H. n. **43**.

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Eucerohippus zavattarii **sp. n.** S. Abyssinia p. 254 figs., SALFI Miss. biol. Paese Borana **3** 1939 no. 2.—See *Taramassus*.

Euchorthippus elegantulus **sp. n.** Channel Is. p. 107 figs., ZEUNER Proc. R. ent. Soc. Lond. (B) **9**.

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Incolacris hainanensis **sp. n.** Hainan p. 302 figs., TINKHAM Lingnan Sci. J. **19**.

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Mekongiana **n. n.** for *Mekongia* Uvar. nec Crosse & Fisch. p. 112, UVAROV Ann. Mag. n. H. (11) **6.**

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Palniacris **gen. n.** p. 529, *maculatus* **sp. n.** (type) S. India p. 531; *rugulosus* Bol. from *Bibracte* p. 532 figs., HENRY Trans. R. ent. Soc. Lond. **90.**

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Diospilus verus **sp. n.** France, Oligocene p. 309 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Dolichoderus oviformis pp. 128, 206, *bruneti* p. 206, *affectus* p. 207, *coquandi* p. 315, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Eriocampa oligocenica **sp. n.** France, Oligocene p. 298 figs., THÉOBALD t.c.

Euponera globiventris, calcarea **spp. n.** France, Oligocene p. 198 figs., THÉOBALD t.c.

Exacrodus flexuosus **sp. n.** France, Oligocene p. 303 figs., THÉOBALD t.c.

Exetastes postornata **sp. n.** France, Oligocene p. 302 figs., THÉOBALD t.c.

Ferrierelus **gen. n.**, *bernardi* **sp. n.** France, Oligocene p. 311 figs., THÉOBALD t.c.

Formica tripartita p. 214, *alsatica* p. 215, *serresi* p. 317, *latinodosa* p. 318, *sepulta* p. 319, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Gesomyrmex expectans p. 210, *miegi* p. 211, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Holocnomus **gen. n.**, *braconiformis* **sp. n.** France p. 50 fig., QUILIS PÉREZ Eos **14.**

Ichneumon pteromajus **sp. n.** France, Oligocene p. 194 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Iridomyrmex breviantennis **sp. n.** France, Oligocene p. 209 figs., THÉOBALD t.c.

Lasius epicentrus **sp. n.** France, Oligocene p. 317 fig., THÉOBALD t.c.

Nemeritis longicornis **sp. n.** France, Oligocene p. 306 figs., THÉOBALD t.c.

Odynerus oligopunctatus **sp. n.** France, Oligocene p. 400 figs., THÉOBALD t.c.

Oecophylla superba **sp. n.** France, Oligocene p. 212 figs., THÉOBALD t.c.

Oligoaphidus **gen. n.**, *sannoniensis* **sp. n.** France p. 52 fig., QUILIS PÉREZ Eos **14.**

Ophion annulatus **sp. n.** France, Oligocene p. 306 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Pamphilius caplani Ckll. from *Cephaleia*, re-description p. 72, COCKERELL Bull. Brooklyn ent. Soc. **35.**

Pantoclis manevali **sp. n.** France, Oligocene p. 310 figs., THÉOBALD Ins. foss. ter. oligoc. France 1937.

Parapimpla **gen. n.**, *rhenana* **sp. n.** France, Oligocene p. 191 figs., THÉOBALD t.c.

Philanthus annulatus **sp. n.** France, Oligocene p. 285 fig., THÉOBALD t.c.

Pimpla seyrigi p. 192, *indura* p. 193, *anomalensis* p. 300, *aquensis* p. 301, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Polistes industrius **sp. n.** France, Oligocene p. 399 figs., THÉOBALD t.c.

Pompilus incertus p. 284, *coquandi, fasciatus* p. 320, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Praon gausai **sp. n.** France p. 59 figs., QUILIS PÉREZ Eos **14.**

Promethes tilloyi **sp. n.** France, Oligocene p. 304 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Protephedrus **gen. n.** p. 55, *terciarius* **sp. n.** France p. 56 fig., QUILIS PÉREZ Eos **14.**

Pseudisobrachium oligocenicum **sp. n.** France, Oligocene p. 397 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Rhysipolis distinctus **sp. n.** France, Oligocene p. 308 figs., THÉOBALD t.c.

Sima oligocenica **sp. n.** France, Oligocene p. 127 fig., THÉOBALD t.c.

Solenopsis major p. 201, *försteri* p. 203, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Tetralonia berlandi **sp. n.** France, Oligocene p. 131 figs., THÉOBALD t.c.

Trioxys primigenus p. 57, *obscuriformis* p. 58, **spp. n.** France figs., QUILIS PÉREZ Eos **14.**

Tshekardohymen **gen. n.**, *martynovi* **sp. n.** Permian, Ural Mts. p. 106 figs., ROHDENDORF C.R. Acad. Sci. U.R.S.S. (N.S.) **26.**

Lepidoptera.

A fossil butterfly in a "Stettin pebble," WANGRIN Ent. Z. **53** 1939 pp. 192–194, 1 fig.

Trichoptera.

Leptocerus exanimis **sp. n.** France, Oligocene p. 321 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Neuroptera.

Parasisyra **gen. n.** p. 143, *kargalica* **sp. n.** Uralsk p. 144 fig., ZALESSKY Ann. Soc. géol. Nord **57** 1932.

Sisyridae **fam. n.** p. 143, ZALESSKY t.c.

Diptera.

Brachycera and Cyclorhapha of upper Oligocene, Rott, Germany, STATZ Palaeontogr. (A) **91** pp. 120–174, 9 pls., 1 fig.

Redefinitions and synonymy of Mycetophilids, EDWARDS Proc. R. ent. Soc. Lond. (B) **9** pp. 120–126.

Agromyza incerta p. 245, *serresi* p. 356, **spp. n.** France, Oligocene figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Allactoneura veiti **sp. n.** France, Oligocene p. 220 fig., THÉOBALD t.c.

Anthomyza rhenana **sp. n.** Germany, upper Oligocene p. 150 figs., STATZ Palaeontogr. (A) **91**.

Atherix saunieri **sp. n.** France, Oligocene p. 145 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Bibio key to French Oligocene spp. p. 331; *celasensis* p. 139, *obtusa*, *tenuiapicalis* p. 140, *elongatipennis* p. 141, *macerata* p. 142, *baumbergeri* p. 223, *parenti*, *dislocata* p. 224, *consolida* p. 225, *nigripennis* p. 286, *spectabilis*, *luteipennis* p. 333, *romani*, *disjectus* p. 334, *conformans* p. 335, *detractus*, *serresi* p. 336, *inflexus* p. 404 **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Chilosia picata **sp. n.** Germany, upper Oligocene p. 141 fig., STATZ Palaeontogr. (A) **91**.—*C. oligocenica* **sp. n.** France, Oligocene p. 353 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Chironomus serresi, *aquisextanus* **spp. n.** France, Oligocene p. 347 figs., THÉOBALD t.c.

Chlorops aquisextanus **sp. n.** France, Oligocene p. 356 figs., THÉOBALD t.c.—*C. anthracinus* **sp. n.** Germany, upper Oligocene p. 153 figs., STATZ Palaeontogr. (A) **91**.

Chrysopilus stigmaticus **sp. n.** Germany, upper Oligocene p. 129 figs., STATZ t.c.

Clusiodes petreficata **sp. n.** Germany, upper Oligocene p. 150 fig., STATZ t.c.

Cyrtonotum gigas **sp. n.** France, Oligocene p. 288 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Dicranomyia antennifera **sp. n.** France, Oligocene p. 344 figs., THÉOBALD t.c.

Dischistus tertiarius **sp. n.** France, Oligocene p. 349 fig., THÉOBALD t.c.

Dixa hyalipennis **sp. n.** France, Oligocene p. 346 figs., THÉOBALD t.c.

Dolichopus spinosus p. 135, *minutus*, *scitus* p. 136 **spp. n.** Germany, upper Oligocene figs., STATZ Palaeontogr. (A) **91**.

Drosophila elegans, *blanda* **spp. n.** Germany, upper Oligocene p. 152 figs., STATZ t.c.

Dryomyza pelidua **sp. n.** Germany, upper Oligocene p. 147 figs., STATZ t.c.

Empis spinifera p. 132, *umbonata* p. 133, **spp. n.** Germany, upper Oligocene figs., STATZ t.c.

Epistrophe kastenholzi **sp. n.** Germany, upper Oligocene p. 142 fig., STATZ t.c.

Eristalis paucisinuatus **sp. n.** France, Oligocene p. 352 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Exechia distincta **sp. n.** France, Oligocene p. 223 fig., THÉOBALD t.c.

Exoprosopa romani **sp. n.** France, Oligocene p. 350 figs., THÉOBALD t.c.

Geron figuratus **sp. n.** France, Oligocene p. 287 figs., THÉOBALD t.c.

Helomyza oligocenica **sp. n.** France, Oligocene p. 245 figs., THÉOBALD t.c.

Helophilus villeneuvi **sp. n.** France, Oligocene p. 351 fig., THÉOBALD t.c.

Hydrotaea maculipennis **sp. n.** France, Oligocene p. 354 figs., THÉOBALD t.c.

Ilisia gracilis **sp. n.** France, Oligocene p. 345 figs., THÉOBALD t.c.

Leptogaster falloti **sp. n.** France, Oligocene p. 242 figs., THÉOBALD t.c.

Limnobia deferi **sp. n.** France, Oligocene p. 236 figs., THÉOBALD t.c.

Limnophila elegans **sp. n.** France, Oligocene p. 287 fig., THÉOBALD t.c.

Mycetophila confusa p. 326, *longipennis* p. 327, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Mycomyia curvithoracis p. 323, *hubaulti* p. 402, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Myiolepta elisabethae **sp. n.** Germany, upper Oligocene p. 144 figs., STATZ Palacontogr. (A) **91.**

Norellisoma setaria **sp. n.** Germany, upper Oligocene p. 145 fig., STATZ t.c.

Oncopygius oligocaenicus, gracilior p. 137, *venustus* p. 138, **spp. n.** Germany, upper Oligocene figs., STATZ t.c.

Opetia atra **sp. n.** Germany, upper Oligocene p. 141 fig., STATZ t.c.

Opomyza venusta, pelidua **spp. n.** Germany, upper Oligocene p. 151 figs., STATZ t.c.

Ornithoponus rottensis **sp. n.** Germany, upper Oligocene p. 154 figs., STATZ t.c.

Oscinella dormescens **sp. n.** Germany, upper Oligocene p. 153 fig., STATZ t.c.

Paraclia tarsalis **sp. n.** Germany, upper Oligocene p. 130 figs., STATZ t.c.

Phalacrotophora tertiaria **sp. n.** Germany, upper Oligocene p. 141 figs., STATZ t.c.

Phronia brevipennis **sp. n.** France, Oligocene p. 324 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Phytomyza vetusta **sp. n.** France, Oligocene p. 242 figs., THÉOBALD t.c.

Plecia keys to French Oligocene spp. pp. 225, 337, 405; *longiventris* p. 133, *superba* p. 134, *angustiventris* p. 135, *splendida* p. 137, *dumasi, graciliventris* p. 138, *gigantea* p. 226, *crassiventris* p. 227, *claripennis* p. 228, *macroventris, oviformis* p. 229, *försteri* p. 230, *conica, miegi* p. 232, *luteipennis, subterranea* p. 233, *variegata, varia, difficilis* p. 234, *graciosa* p. 235, *dilatativentris* p. 338, *nervisinuata* p. 339, *retracta* p. 341, *constricta* p. 342, *flichei* p. 406, *fusciventris* p. 407, *guinieri* p. 408, *goreti, brevithoracis, cerestensis* p. 409, *acutiventris* p. 410, *maculiventris* p. 411, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Rhagio calcaratus **sp. n.** Germany, upper Oligocene p. 128 figs., STATZ Palaeontogr. (A) **91.**

Rhamphomyia fulvescens p. 133, *latipennata* p. 134, *rottensis* p. 135, **spp. n.** Germany, upper Oligocene figs., STATZ t.c.

Rhymosia försteri **sp. n.** France, Oligocene p. 22 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Sciapus rottensis, amabilis **spp. n.** Germany, upper Oligocene p. 139 figs., STATZ Palaeontogr. (A) **91.**

Sciara saportana, inflata p. 328, *acuminata, oblonga* p. 329, *minuscula* p. 330, *flichei* p. 403, **spp. n.** France, Oligocene figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Scopeuma punctata **sp. n.** Germany, upper Oligocene p. 146 figs., STATZ Palaeontogr. (A) **91.**

Sepsis bicolorata, atra p. 147, *ignobilis* p. 148, **spp. n.** Germany, upper Oligocene figs., STATZ t.c.

Sphegina abrasa **sp. n.** France, Oligocene p. 243 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Stratiomyia pentadiscalia **sp. n.** Germany, upper Oligocene p. 124 figs., STATZ Palaeontogr. (A) **91.**

Symphoromyia marginata **sp. n.** France, Oligocene p. 241 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Syrphus aenëus **sp. n.** Germany, upper Oligocene p. 142 fig., STATZ Palaeontogr. (A) **91.**

Tabanus fulvescens **sp. n.** Germany, upper Oligocene p. 130 figs., STATZ t.c.

Temnostoma sacki **sp. n.** Germany, upper Oligocene p. 145 figs., STATZ t.c.

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Thereva marcelini **sp. n.** France, Oligocene p. 146 fig., THÉOBALD t.c.

Tipula marioni p. 144, *indura* p. 145, *minima* p. 237, *miegi* p. 238, *inflexa* p. 343, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Trepidaria rottensis **sp. n.** Germany, upper Oligocene p. 148 figs., STATZ Palaeontogr. (A) **91.**

Usia atra **sp. n.** Germany, upper Oligocene p. 131 figs., STATZ t.c.

Xanthochlorus tenellus **sp. n.** Germany, upper Oligocene p. 138 figs., STATZ t.c.

Hemiptera.

Aphanus contractus p. 256, *dilatatus* p. 365, **spp. n.** France, Oligocene figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Aphrophora brevistylata p. 262, *coquandi* p. 368, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Coreus serresi **sp. n.** France, Oligocene p. 361 fig., THÉOBALD t.c.

Cydnus cristatus p. 251, *meunieri* p. 357, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Daclera naturalis **sp. n.** France, Oligocene p. 359 fig., THÉOBALD t.c.

Eurydema retrorsum **sp. n.** France, Oligocene p. 253 figs., THÉOBALD t.c.

Gerris parabdominalis **sp. n.** France, Oligocene p. 254 figs., THÉOBALD t.c.

Heterogaster sundgoviensis p. 257, *breviscutatus* p. 417, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Leptoserinetha navicularis **sp. n.** France, Oligocene p. 362 fig., THÉOBALD t.c.

Lygaeus celasensis p. 149, *elongatiabdominalis* p. 363, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Megalomerium serratum **sp. n.** France, Oligocene p. 366 fig., THÉOBALD t.c.

Nezara latitesta **sp. n.** France, Oligocene p. 148 figs., THÉOBALD t.c.

Oligonila **gen. n.**, *försteri* p. 258, *defectuosa* p. 259, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Phytocoris poissoni **sp. n.** France, Oligocene p. 418 fig., THÉOBALD t.c.

Praenotochilus **gen. n.**, *parallelus* **sp. n.** France, Oligocene p. 289 fig., THÉOBALD t.c.

Procymus **gen. n.**, *cockerelli* **sp. n.** Florissant lake, Colorado p. 79, USINGER J. Paleont. **14.**

Ptyelus marcatus **sp. n.** France, Oligocene p. 260 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Psocoptera.

Parelectrentomum **gen. n.**, *priscum* **sp. n.** E. Prussian amber p. 228 figs., ROESLER Zool. Anz. **129.**

Isoptera.

Termopsis gracilipennis **sp. n.** France, Oligocene p. 162 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Embioptera.

Epiembiodea **subord. n.** p. 62, ZALESSKY Ann. Soc. géol. Nord **63** 1938.

Tillyardembiidae **fam. n.** p. 64, ZALESSKY t.c.

Tillyardembia **gen. n.** p. 65, *biarmica* p. 66, *antennaeplana* p. 73, **spp. n.** Permian, Urals figs., ZALESSKY t.c.

Protoperlaria.

Caenoptilonidae **fam. n.** p. 141, ZALESSKY Ann. Soc. géol. Nord **57** 1932.

Caenoptilon **gen. n.**, *minutum* **sp. n.** Uralsk p. 141 fig., ZALESSKY t.c.

Odonata.

Body structure of Archodonata and position in Palaeoptera discussed, ROHDENDORF C.R. Acad. Sci. U.R.S.S. (N.S.) **26** pp. 108–110, 4 figs.

Aeschna heterofasciata **sp. n.** France, Oligocene p. 159 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Eolestes **gen. n.** p. 104, *synthetica* **sp. n.** Eocene, Colorado p. 105 figs., COCKERELL Ent. News **51.**

Indophaea falloti **sp. n.** France, Oligocene p. 387 fig., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Lestes regina **sp. n.** France, Oligocene p. 112 figs., THÉOBALD t.c.

Permothemidia **gen. n.**, *caudata* **sp. n.** Permian, Russia p. 109 figs., ROHDENDORF C.R. Acad. Sci. U.R.S.S. (N.S.) **26.**

Zacallites balli wings pp. 62–64 figs., FRASER Proc. R. ent. Soc. Lond. (B) **9.**

Orthoptera.

Acheta marioni **sp. n.** France, Oligocene p. 115 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Amekeoblatta **gen. n.** p. 135, *elegans* **sp. n.** Uralsk p. 136 fig., ZALESSKY Ann. Soc. géol. Nord **57** 1932.

Hololampra succini **sp. n.** Baltic amber p. 68, PITON Bull. Soc. linn. Lyon **9**.

Lithymnetes laurenti **sp. n.** France. Oligocene p. 113 figs., THÉOBALD Ins. foss. terr. oligoc. France 1937.

Locustopsites **gen. n.**, *gigantea* **sp. n.** France, Oligocene p. 116 fig., THÉOBALD t.c.

Oedipoda saussurei **sp. n.** France, Oligocene p. 293 figs., THÉOBALD t.c.

Orthacanthacris lineata p. 117, *rhenana* p. 160, **spp. n.** France, Oligocene figs., THÉOBALD t.c.

Phyloblatta gigantea **sp. n.** Permian, Saar p. 324 figs., GUTHÖRL Senckenbergiana **21** 1939.

Vilvia **gen. n.** p. 137, *densinervosa* **sp. n.** Vilva p. 138 fig., ZALESSKY Ann. Soc. géol. Nord **57** 1932.

Miomoptera.

Archaemiopteridae **fam. n.** p. 320, GUTHÖRL Senckenbergiana **21** 1939.

Archaemioptera **gen. n.** p. 320, *carbonaria* **sp. n.** Carbon, Saar p. 321 figs., GUTHÖRL t.c.

Mixotermitoidea.

Kliveria incerta further description p. 318 figs., GUTHÖRL Senckenbergiana **21** 1939.

Palaeodictyoptera.

Saarodictyum **gen. n.**, *abnormis* **sp. n.** Carbon, Saar p. 315 figs., GUTHÖRL Senckenbergiana **21** 1939.

ERRATA.

Vol. lx, 1923, p. 204, col. 1, 4 lines from end, after "**54**" insert "1921"

Vol. lxii, 1925, p. 308, col. 2, line 19, for "*callimorphus*" read "*callmorphus*"

Vol. lxii, 1925, p. 309, col. 1, 20 lines from end, for "*Plysocrema*" read "*Physocrema*"

Vol. lxii, 1925, p. 310, col. 1, lines 19 & 24, for "*Chthonolasius*" read "*Chtonolasius*"

Vol. lxii, 1925, p. 311, col. 2, line 9, for "*noggii*" read "*nodgii*"

Vol. lxii, 1925, p. 323, col. 1, for "*Zacrestoides*" read "*Zachrestoides*"

Vol. lxiii, 1926, p. 231, col. 2, & p. 232, col. 1, 4 lines from end, for "*Paracoptus*" read "*Paracoptops*"

Vol. lxiii, 1926, p. 233, col. 1, for "*Pseudapachymerus*" read "*Pseudopachymerus*"

Vol. lxiii, 1926, p. 269, col. 1, for "*Drasterioides*" read "*Drasteriodes*"

Vol. lxiii, 1926, p. 331, col. 2, for "*Acropiga*" read "*Acropyga*"

Vol. lxiii, 1926, p. 331, col. 2, for "*Aenistus*" read "*Aenictus*" and for "p. 233" read "p. 232"

Vol. lxiii, 1926, p. 332, col. 2, line 10, for "no locality" read "S. Rhodesia"

Vol. lxiii, 1926, p. 333, col. 1, line 14, for "**var. n.** *bouvardi*" read "**subsp. n.** *bouvardi*"

Vol. lxiii, 1926, p. 333, col. 1, 10 lines from end, for "*mandombii*" read "*mandonbia*"

Vol. lxiii, 1926, p. 334, col. 1, line 35, for "**subsp. n.**" read "**subspp. n.**"

Vol. lxiii, 1926, p. 334, col. 2, line 2, after "Amboina" insert "p. 438"

Vol. lxiii, 1926, p. 353, col. 1, for "*Zacrestoides*" read "*Zachrestoides*"

Vol. lxiii, 1926, p. 433, col. 2, for "*Belutaphis*" read "*Betulaphis*"

Vol. lxiv, 1927, p. 264, col. 1, for "*Miresopis*" read "*Miresopsis*"

Vol. lxiv, 1927, p. 293, col. 1, line 17, before "p. 339" insert "**sp. n.**" and for "workers" read "worker"

Vol. lxiv, 1927, p. 293, col. 2, 5 lines from end, insert " p. 147 "

Vol. lxiv, 1927, p. 301, col. 1, for " *Indiobia* " read " *Idiobia* "

Vol. lxv, 1928, p. 303, col. 1, line 31, after " Santschi " insert " p. 46 "

Vol. lxv, 1928, p. 304, col. 2, line 7, after " Coast " insert " p. 204 "

Vol. lxv, 1928, p. 304, col. 2, line 14, delete " *nigriscapa* "

Vol. lxv, 1928, p. 304, col. 2, line 43, after " *hippomanes* " insert " *moesta* "

Vol. lxv, 1928, p. 305, col. 1, line 5, for " *pimpla* " read " *simpla* "

Vol. lxv, 1928, p. 305, col. 2, for " *Simophone* " read " *Simopone* "

Vol. lxv, 1928, p. 371, col. 2, lines 1 & 14, for " *Terraeregina* " read " *Terraereginia* "

Vol. lxv, 1928, p. 376, col. 1, for " *Philopotamosis* " read " *Philopotamopsis* "

Vol. lxv, 1928, p. 429, col. 1, for " *Haploterum* " read " *Haplopterum* "

Vol. lxv, 1928, p. 429, col. 2, for " *Lindonopsis* " read " *Sindonopsis* "

Vol. lxvi, 1929, p. 304, col. 2, 5 lines from end, & p. 307, col. 2, 10 lines from end, for " 1922 " read " 1920 "

Vol. lxvi, 1929, p. 305, col. 2, line 16, for " p. 7 " read " p. 6 "

Vol. lxvi, 1929, p. 306, col. 2, 15 lines from end, for " *bucki* **sp. n.**" read " *bucki* re-description "

Vol. lxvi, 1929, p. 307, col. 2, line 4, for " *punctifrons* **sp. n.**" read " *punctifrons* re-description "

Vol. lxvi, 1929, p. 308, col. 1, transfer *Palaeorhiza* to APIDAE

Vol. lxvi, 1929, p. 308, col. 1, line 25, for " var." read " st." & line 26 for " **stt. n.**" read " **varr. n.**"

Vol. lxvii, 1930, p. 204, col. 1, for " *Microsomira* " read " *Micrisomira* "

Vol. lxvii, 1930, p. 209, col. 2, for " *Microphaeochroops* " read " *Microphaechroops* "

Vol. lxvii, 1930, p. 272, col. 1, for " *Pimetephila* " read " *Pimelephila* "

Vol. lxvii, 1930, p. 297, col. 1, line 16, after " E. Africa " insert " p. 53 "

Vol. lxvii, 1930, p. 297, col. 1, line 23, after " *purpureus* " insert a comma

Vol. lxvii, 1930, p. 297, col. 2, line 16, for " p. 55 " read " p. 58 "

Vol. lxvii, 1930, p. 298, col. 1, transfer *Elasmognathias* to ICHNEUMONIDAE

Vol. lxvii, 1930, p. 298, col. 1, for " *Engrama* " read " *Engramma* "

Vol. lxvii, 1930, p. 298, col. 2, line 35, insert " Brazil " after " **spp. n.**"

Vol. lxvii, 1930, p. 299, col. 1, line 5, for " p. 59 " read " p. 58 "

Vol. lxvii, 1930, p. 299, col. 1, line 10, after " p. 68 " insert " **spp. n.**"

Vol. lxvii, 1930, p. 299, line 14, for " **subsp. n.**" read " **subspp. n.**"

Vol. lxvii, 1930, p. 299, col. 2, line 6, after " *Leptanilla* " insert " p. 201 "

Vol. lxvii, 1930, p. 299, col. 2, line 16, for " p. 58 " read " p. 59 "

Vol. lxvii, 1930, p. 299, col. 2, line 19, for " worker " read "mermithergate "

Vol. lxvii, 1930, p. 339, col. 1, for " *Ateropogon* " read " *Aterpogon* "

Vol. lxvii, 1930, p. 428, col. 1, for " *Pararcomacris* " read " *Paracomacris* "

Vol. lxviii, 1931, p. 243, col. 1, for " *Deropsidea* " read " *Derospidea* "

Vol. lxviii, 1931, p. 406, col. 1, for " *Cryptophania* " read " *Cyptophania* "

Vol. lxviii, 1931, p. 420, col. 2, and p. 421, line 35, for " *Anagaracris* " read " *Angaracris* "

Vol. lxviii, 1931, p. 430, col. 2, for " *Electolabis* " read "*Electrolabis* "

Vol. lxix, 1932, p. 254, col. 1, for " *Paratongila* " read " *Parantongila* "

Vol. lxix, 1932, p. 266, col. 2, last line, for "**20**" read "**26**"

Vol. lxix, 1932, p. 267, col. 1, line 33, for "p. 12" read "p. 14"

Vol. lxix, 1932, p. 267, col. 1, 4 lines from end, for "*afrensis*" read "*aïrensis*"

Vol. lxix, 1932, p. 268, col. 2, line 7, delete "*m.*,"

Vol. lxix, 1932, p. 374, col. 2, line 4, delete "**gen. n.**"

Vol. lxix, 1932, p. 379, col. 1, for "*Stylodoxia*" read "*Stylodoria*"

Vol. lxix, 1932, p. 412, col. 1, for "*Dicromothrips*" read "*Dichromothrips*"

Vol. lxx, 1933, p. 362, col. 2, for "*Toxoptera*" read "*Toxophora*"

Vol. lxx, 1933, p. 386, col. 2, for "*Tetratomyza*" read "*Tetatomyza*"

Vol. lxx, 1933, p. 399, col. 1, for "*Pseudoscarta*" read "*Pseudeoscarta*"

Vol. lxxi, 1934, p. 56, No. **1082a** & p. 279, col. 2, line 14, for "**28**" read "**18**"

Vol. lxxi, 1934, p. 328, col. 1, for "*Barburion*" read "*Barbourion*"

Vol. lxxi, 1934, p. 330, col. 2, transfer *Antimima* to NOTODONTIDAE

Vol. lxxi, 1934, p. 383, col. 2, transfer *Chrysonotomyia* and *Chrysonotus* to STRATIOMYIIDAE

Vol. lxxii, 1935, p. 245, col. 2, for "*Fissilonacerdes*" read "*Fissilamoncodes*"

Vol. lxxii, 1935, p. 253, col. 2, after "*Aeuryomus*" insert "**gen. n.** p. 96."

Vol. lxxii, 1935, p. 257, col. 2, after "*Hemieuryomus*" insert "**gen. n.** p. 96"

Vol. lxxii, 1935, p. 272, col. 1, for "*Dorcasia*" read "*Dorcasta*"

Vol. lxxii, 1935, p. 291, col. 1, line 15 & col. 2, for "*Hypsoceraeus*" read "*Hypsiceraeus*"

Vol. lxxii, 1935, p. 298, col. 1, 12 lines from end, for "pp. 7-100" read "pp. 97-100"

Vol. lxxii, 1935, p. 321, col. 1, for "*Paridres*" read "*Parides*"

Vol. lxxii, 1935, p. 329, col. 1, for "*Erythrophala*" read "*Eryihrophaia*"

Vol. lxxii, 1935, p. 351, col. 2, for "*Trachype plaphaeolopha*" read "*Trachypepla phaeolopha*"

Vol. lxxii, 1935, p. 383, col. 2, after "*Minthotachina*" insert "**gen. n.**"

Vol. lxxii, 1935, p. 396, col. 1, for "*Eidunnia*" read "*Eldunnia*"

Vol. lxxii, 1935, p. 400, col. 2, for "*Camplotingis*" read "*Campylotingis*"

Vol. lxxii, 1935, p. 417, col. 1, for "*Holacothrips*" read "*Bolacothrips*"

Vol. lxxii, 1935, p. 430, col. 2, transfer "*Perixerus*" to ACRIDIDAE

Vol. lxxiii, 1936, p. 222, col. 1, for "*Walterhornia*" read "*Waltherhornia*"

Vol. lxxiii, 1936, p. 225, col. 2, for "*Eucarus*" read "*Eucaerus*"

Vol. lxxiii, 1936, p. 237, col. 2, for "*Hippenlister*" read "*Hippeutister*"

Vol. lxxiii, 1936, p. 271, col. 2, for "*Pseudophyllobius*" read "*Pseudophytobius*"

Vol. lxxiii, 1936, p. 278, col. 2, for "*Misenia*" read "*Miaenia*" and transfer to LAMIIDAE

Vol. lxxiii, 1936, p. 281, col. 1, for "*Controderus*" read "*Contoderus*"

Vol. lxxiii, 1936, p. 281, col. 2, for "*Groma*" read "*Gnoma*"

Vol. lxxiii, 1936, p. 290, col. 1, for "*Agrioconota*" read "*Agroiconota*"

Vol. lxxiii, 1936, p. 305, col. 1, line 15, for "Rhode I." read "Rhodes I."

Vol. lxxiii, 1936, p. 305, 12 lines from end, for "*listulatus* ♂ p. 211" read "*ustulatus* ♂ p. 212"

Vol. lxxiii, 1936, p. 305, 11 lines from end, for "p. 212" read "p. 211"

Vol. lxxiii, 1936, p. 305, col. 2, line 10, for "var. *aenescens*" read "subsp. *aenescens*"

Vol. lxxiii, 1936, p. 306, col. 1, line 4, for "*caffra*" read "*caffraria*"

Vol. lxxiii, 1936, p. 306, col. 2, line 1, for "p. 56" read "p. 50"

Vol. lxxiii, 1936, p. 306, col. 2, line 18, for "*gogates*" read "*gagates*"

Vol. lxxiii, 1936, p. 306, line 27, for "**varr. n.** *constricta* p. 74, *limanica*" read "**var. n.** *constricta* p. 74, **subsp. n.** *limanica*"

Vol. lxxiii, 1936, p. 307, col. 2, line 16, for "Rhode I." read "Rhodes I."

Vol. lxxiii, 1936, p. 312, for "*Austrodops*" read "*Austrodolops*"

Vol. lxxiii, 1936, p. 318, col. 2, for "*Hysterocolus*" read "*Hysterobolus*"

Vol. lxxiii, 1936, p. 327, col. 2, for "*Cocyreus*" read "*Cacyreus*"

Vol. lxxiii, 1936, p. 375, col. 1, line 29, for "*T. cognata*" read "*Tanyptera cognata*"

Vol. lxxiii, 1936, p. 381, col. 1, transfer "*Dolichopoda*" to Orth., Tettigoniidae

Vol. lxxiii, 1936, p. 385, col. 1, transfer "*Lasiopleura*" to CHLOROPIDAE

Vol. lxxiii, 1936, p. 388, col. 1, line 22, for "*synitimorii*" read "*syuitimorii*"

Vol. lxxiii, 1936, p. 392, col. 1, for "*Eusiesta*" read "*Euxesta*"

Vol. lxxiii, 1936, p. 395, col. 2, for "*Leucopsis*" read "*Leucopis*"

Vol. lxxiii, 1936, p. 398, col. 2, for "*Terapsyllus*" read "*Tetrapsyllus*"

Vol. lxxiii, 1936, p. 400, col. 1, for "*Acantholyta*" read "*Acanthotyla*"

Vol. lxxiii, 1936, p. 433, col. 2, 8 lines from end & p. 434, col. 1, for "*Phanerota*" read "*Paranerota*"

Vol. lxxiv, 1937, p. 223, col. 2, for "*Zaragochilus*" read "*Zargochilus*"

Vol. lxxiv, 1937, p. 232, col. 2, for "*Antongilum*" read "*Antongilium*"

Vol. lxxiv, 1937, p. 236, col. 1, for "*Potamacares*" read "*Potamocares*"

Vol. lxxiv, 1937, p. 237, col. 1, for "*Xylopaphus*" read "*Xylographus*"

Vol. lxxiv, 1937, p. 238, col. 2, for "*Pseudopallenia*" read "*Pseudopallenis*"

Vol. lxxiv, 1937, p. 240, col. 1, for "*Macroichthyurus*" read "*Microichthyurus*"

Vol. lxxiv, 1937, p. 264, col. 2, for "*Teledactylus*" read "*Teleodactylus*"

Vol. lxxiv, 1937, p. 267, col. 2, for "*Euprius*" read "*Euparius*"

Vol. lxxiv, 1937, p. 268, col. 2, for "*Allotmeus*" read "*Allotraeus*"

Vol. lxxiv, 1937, p. 289, col. 1, line 32, after "*globoculis* ♀" insert "p. 407"

Vol. lxxiv, 1937, p. 289, col. 2, line 12, after "p. 48" insert "**spp. n.**"

Vol. lxxiv, 1937, p. 289, col. 2, line 28, "*macilentus wolleboecki*" is not a new var.

Vol. lxxiv, 1937, p. 290, col. 1, line 5, for "*brumpti*" read "*zumpti*" and insert "Kamerun"

Vol. lxxiv, 1937, p. 290, col. 1, line 11, for "*aubertilaevithorax*" read "*auberti laevithorax*"

Vol. lxxiv, 1937, p. 291, col. 1, line 12, for "p. 301" read "p. 302"

Vol. lxxiv, 1937, p. 291, col. 1, line 13, for "*Mycoceparus*" read "*Mycocepurus*"

Vol. lxxiv, 1937, p. 291, col. 1, 14 lines from end, after "*sordidula*" insert "E. Africa"

Vol. lxxiv, 1937, p. 291, col. 1, 13 lines from end, transfer "*mimosea* . . . p. 56 E. Africa" to *Crematogaster*

Vol. lxxiv, 1937, p. 291, col. 2, line 9, after "p. 222" insert "Angola"

Vol. lxxiv, 1937, p. 300, col. 1, line 14 & p. 302, col. 1, for "*Paralloma*" read "*Parallomma*"

Vol. lxxiv, 1937, p. 315, col. 1, 15 lines from end & p. 318, col. 1, for "*Paranatelia*" read "*Paranataelia*"

Vol. lxxiv, 1937, p. 329, col. 2, transfer "*Acrocercops*" to TINEIDAE

Vol. lxxiv, 1937, p. 351, col. 1, for "*Laphromyia*" read "*Laphriomyia*"

Vol. lxxiv, 1937, p. 367, col. 1, for "*Leptophya*" read "*Leptoypha*"

Vol. lxxiv, 1937, p. 393, col. 2, after "*Orchezelandia*" insert "**gen. n.**"

Vol. lxxv, 1938, p. 241, col. 1, for "*Semianus*" read "*Simianus*"

Vol. lxxv, 1938, p. 242, col. 1, for "*Endoderus*" read "*Enoclerus*"

Vol. lxxv, 1938, p. 245, col. 1, 4 lines from end, for "*Ototreta* Pic nec E. Oliv." read "*Ototreta drescheri* Pic"

Vol. lxxv, 1938, p. 264, col. 1, for "*Emmaria*" read "*Emmeria*"

Vol. lxxv, 1938, p. 266, col. 1, 6 lines from end, for "*Prinopus*" read "*Prionopus*"

Vol. lxxv, 1938, p. 279, col. 2, for "*Hyganis*" read "*Hyagnis*"

Vol. lxxv, 1938, p. 282, col. 1, for "*Plesates*" read "*Phesates*"

Vol. lxxv, 1938, p. 282, col. 2, line 19, transfer "*P. mediovittata* — Novit. ent. **8**" to *Prosopocera*

Vol. lxxv, 1938, p. 284, col. 1, for "*Saima*" read "*Saimia*"

Vol. lxxv, 1938, p. 296, col. 2, line 3, after "**gen. n.**" insert "type *Pompilus ignobilis* Sauss."

Vol. lxxv, 1938, p. 297, col. 2, 4 lines from end & p. 298, col. 1, line 22, for "*Méhelijella*" read "*Méhelyella*"

Vol. lxxv, 1938, p. 299, col. 2, line 12, for "*basieliensis*" read "*brasiliensis*"

Vol. lxxv, 1938, p. 299, col. 2, line 17, for "*Sericomyrmex*" read "*Cyphomyrmex*"

Vol. lxxv, 1938, p. 300, col. 2, line 10, for "*mondio*" read "*mondoi*"

Vol. lxxv, 1938, p. 300, col. 2, line 27, after "*beniensis*" insert "**sp. n.** Bolivia" and transfer "(*Cyphomannia* . . . p. 187)" to *Cyphomyrmex*

Vol. lxxv, 1938, p. 306, col. 2, for "*Ceratiohygadeuon*" read "*Ceratophygadeuon*"

Vol. lxxv, 1938, p. 343, col. 2, for "*Syncopaema*" read "*Syncopacma*"

Vol. lxxv, 1938, p. 346, col. 1, for "*Arthripsodes*" read "*Athripsodes*"

Vol. lxxv, 1938, p. 370, col. 1, for "*Citabaena*" read "*Citibaena*"

Vol. lxxv, 1938, p. 379, col. 1, for "*Isochisia*" read "*Isoclusia*"

Vol. lxxv, 1938, p. 387, col. 1 & col. 2, 7 lines from end, for "*Capeneus*" read "*Capaneus*"

Vol. lxxv, 1938, p. 388, col. 2, for "*Stenomatopodus*" read "*Stenometapodus*"

Vol. lxxv, 1938, p. 418, col. 2, for "*Hydrotettix*" read "*Hydrotetrix*"

Vol. lxxvi, 1939, p. 226, col. 2, & p. 228, col. 2, 16 lines from end, for "*Pachyporus*" read "*Tachyporus*"

Vol. lxxvi, 1939, p. 228, col. 1, after "*Pseudocynusa*" insert "**gen. n.**"

Vol. lxxvi, 1939, p. 232, col. 2, transfer "*Cryptopleurum*" to HYDROPHILIDAE

Vol. lxxvi, 1939, p. 235, col. 2, 9 lines from end, for "*Ausrolimnius*" read "*Austrolimnius*"

Vol. lxxvi, 1939, p. 259, col. 1, 17 & 19 lines from end, for "*Cryptacris*" read "*Cryptacrus*"

Vol. lxxvi, 1939, p. 272, col. 2, for "*Nedhezdiella*" read "*Nadezhdiella*"

Vol. lxxvi, 1939, p. 302, col. 1, line 3, "*teranischii*" is not an sp. n.

Vol. lxxvi, 1939, p. 302, col. 1, transfer "*Myrmecolax*" to Col., Stylopidae

Vol. lxxvi, 1939, p. 302, col. 1, 15 lines from end, for "*s. lutescens*" read "*s.c. lutescens*"

Vol. lxxvi, 1939, p. 302, col. 2, line 15, for "♀" read "☿"

Vol. lxxvi, 1939, p. 303, col. 2, transfer "*Hyperiodes*" to Lep., Noctuidae

Vol. lxxvi, 1939, p. 325, col. 2, for "*Diactenes*" read "*Diatenes*"

Vol. lxxvi, 1939, p. 330, col. 2, transfer "*Alophosoma*" to Noctuidae

Vol. lxxvi, 1939, p. 344, col. 1, line 15, for "*trissorhiza*" read "*trissorrhiza*"

Vol. lxxvi, 1939, p. 365, col. 1, after "*Caenoconops*" insert "**gen. n., p. 373**"

Vol. lxxvi, 1939, p. 389, col. 1, for "*Ledrapora*" read "*Ledraprora*"

Vol. lxxvi, 1939, p. 408, col. 1, line 14, for "Psocopids" read "Proscopids"

Vol. lxxvi, 1939, p. 413, col. 1, transfer "*Tullbergia*" to Collembola

Vol. lxxvi, 1939, p. 414, col. 2, for "*Bracus*" read "*Blacus*"

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III.—SYSTEMATIC INDEX.

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HEMICHORDATA.

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Glossobalanus alatus **sp. n.** S. Africa' VAN DER HORST Ann. S. Afr. Mus· **32** (5) 1940 p. 316 figs. 20–42; *G. ruficollis* figd , OKUDA, **8**.

Willeyia delagoensis sp. n. S. Africa, VAN DER HORST Ann. S. Afr. Mus. **32** (5) 1940 p. 295 figs. 2–19.

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(Vacant.)

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(Vacant.)

XV. PISCES

BY

E. TREWAVAS, D.Sc.

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1.—Ablan, G. L. Two new Philippine gobioids. Philipp. J. Sci. Manila **71** 1940 pp. 373–377 2 pls.

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Andō, T. *vide* **Oya,** T.

Angeletti, S. *vide* Schreiber, B.

9.—Anon. Ictiologia del Peru (Continuación). Bol. Mus. Hist. nat. "Javier Prado," Lima **3** 11 1939 pp. 63–77, **4** 12 1940 pp. 69–84, **4** 13 1940 pp. 257–270 illus.

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ARRANGED BY

MALCOLM A. SMITH, M.R.C.S.

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ARRANGED BY

W. L. SCLATER, M.A.

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Full references are given only in the cases of new genera and species. In other cases the numeral in larger Clarendon refers to the List of Titles, where the full reference will be found. The figures in smaller Clarendon refer to the volume number of the full reference.

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XVIII. MAMMALIA

ARRANGED BY

W. L. SCLATER, M.A.

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NYCTERIDAE.

Megaderma spasma celebensis **subsp. n.** Celebes, SHAMEL J. Mammal. **21** p. 352.

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Cynopterus sphinx terminus **subsp. n.** Timor, *C. b. brachyotis* range, SODY Treubia **17** p. 404.—*C. brachyotis concolor* **subsp. n.** Enggano, SODY Treubia **17** p. 393.

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Rousettus leschenaulti breeding and other habits, flower pollination, dimensions and systematic status, MCCANN **423**.—*R. amplexicaudatus* note on Enggano race p. 391, SODY **607**.

ORDER PROSIMIAE.

Catalogue of the types of Lemurs in the Paris Museum, RODE **538**.

Structure of external ear in the Lemurs, HILL **322**.

The external genetalia of the Cameroon Lemurs p. 655 figs., SANDERSON **554**.

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†*Loveina zephyri* **gen.** et **sp. n.** (Anaptomorphidae) L. Paleocene Wyoming, SIMPSON Bull. Amer. Mus. **77** p. 188 figs.

†*Teilhardina* **gen. n.** for genotype *Omomys belgicus* Teilhard 1927, SIMPSON Bull. Amer. Mus. **77** p. 190.

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†*Jepsenella praepropera* **gen.** et **sp. n.** (Apatemyidae) M. Paleocene Montana, SIMPSON Bull. Amer. Mus. **77** p. 186 figs.

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†*Hemiacodon* descr. figs. of skeleton and discussion of affinities p. 190, SIMPSON **594**.

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†*Promyaticebus gaudryi* photos of type skull p. 201, SIMPSON **594**.

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Phylogenetic differentiation in the appendix of the caecum, GLUCKMANN **237**.

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Cebus discussion of a collection recently received p. 1, *C. fatuellus tocantinus* Rio Tocantins p. 9, *C. libidinosus juruanus* Rio Jurua p. 15 Brazil **subspp. n.**, LONNBERG Ark. Zool. Stockh. **31A** no. 23.

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Macaca fibre components of laryngeal nerve, BROCKLEHURST & EDGEWORTH **76**; Pontine nucleus of cerebral hemispheres, SUNDERLAND **627**.—*M. mulatta* the supply and shipping for American laboratories, CARPENTER **101**; Placentation studies, WISLOCKI & STREETER **704**.—*M. rhesus* variation in brachial plexus, CHASE & DE GARIS **119**.—*M. sinicus* normal haemetological standards, RAO & RAO **525**; radiological studies of alimentary tract, DOGRA **179**.

Papio porcarius field observations on habits in the Transvaal, MARAIS **435**; Histology of thyroid, GRAFFLIN **254**.

†*Parapapio broomi* addt. descr. *P. whitei* p. 90, *P. jonesi* p. 93 *P. angusticeps*, *P. major* p. 95 **spp. n.** figs. Pleistocene S. Africa, BROOM Ann. Transv. Mus. **20**.

Semnopithecus entellus ilio-femoral ligament of hip, AYER **22**.

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Classification of the Hominidae, HILL **320**.

Scope of physical anthropology, CLARK **127**.

Evolution and phylogeny of Man, v. KOENINGSWALD **378**; CLARK **124**; WESTENHÖFER **692**.

Geology and early Man, PATERSON **493**.

On the geological age of Neanderthal Man, ZEUNER **721**.

A Hominid-like molar of probable Pleistocene age from Sterkfontein, Transvaal descr. fig., SHAW **582**.

Australopithecus review of present status, DART **156**; BROOM **80**.

Pithecanthropus and *Sinanthropus* taxonomic relationships and human nomenclature, CLARK & OTHERS **126**.

Plesianthropus transvaalensis discussion of upper dental arch, GREGORY & HELLMAN **262**.

Sinanthropus pekinensis and primitive and recent Hominids, the torus occipitalis of the molars and its transformation, WEIDENREICH **686**.

SUPPLEMENT.

The following are additional items, omitted from previous Records :—

Zool. Rec. LXXIII 1936 Mamm. p. 66 add :—

Hypselephas **gen. n.** for type *Elephas hysudricus* Falc. 1845–6, OSBORN Proboscidea Monogr. 1936 p. 12.

Platelephas **gen. n.** for type *Elephas platycephalus* Osborn, OSBORN Proboscidea Monogr. 1936 p. 12.

Zool. Rec. LXXIV 1937 Mamm. :—

p. 70. For *Murescia* **subg. n.** Dasyuridae read *Murexia* Tate & Archbold.

p. 70. Add to Peramelidae : *Ornoryctes* **subg. n.** of *Peroryctes* for genotype *Perameles ornatus* Thos., TATE & ARCHBOLD Bull. Amer. Mus. Nat. Hist. **73** pp. 331, 352.

p. 86. For *Mascomys* **gen. n.** read *Maxomys* Sody.

Zool. Rec. LXXV 1938 p. 79 Mamm. add :—

Kansasomys meadensis **gen.** et **sp. n.** [nom.nud. non descript.] Pliocene Kansas, HIBBARD Trans. Kansas. Acad. Sci. **40** 1938 p. 239.

Zool. Rec. LXXVI for 1939 add :—

p. 80. (Viverridae). Scent and other glands of *Hemigalus, Paradoxurus,* etc. pp. 413, 430 etc., POCOCK Mammals Brit. India. **1**.

p. 80 (Felidae). *Felis constantia* Forster 1780 antedates *F. lybica* Forster and *F. ocreata* Gmel. p. 286, *F. ornata* is a race of *F. constantia* p. 287, *F. chaus prateri* Upper Sind p. 98, *F. c. kelaarti* Ceylon p. 300 **subspp. n.**, POCOCK Mamm. Brit. Ind. **1**.

p. 81. *Prionailurus bengalensis trevelyani* Kashmir p. 273, *P. rubiginosus phillipsi* Ceylon p. 278 **subspp. n.**, POCOCK Mamm. Brit. India. **1**.

XIX.

LIST OF NEW GENERIC AND SUBGENERIC NAMES RECORDED IN VOLUME LXXVII.

The total number of New Genera enumerated in this list is 1,429, which is made up as follows :—

Protozoa, 35; Porifera, 8; Coelenterata, 80; Echinoderma, 44; Vermes, 92; Brachiopoda, 4; Bryozoa, 3; Mollusca, 90; Crustacea, 28; Trilobita, 25; Arachnida, 126; Insecta, 718; Protochordata, 0; Pisces, 103; Amphibia and Reptilia 43; Aves, 10; Mammalia, 20.

Aa *Baker* Moll. 50
Absoloniana *Willmann* Arach. 22
Acadagnostus *Kobayashi* Trilo. 5
Acanthorhinocoris *Miller* Ins. 226
Acanthotropis *Haas* Moll. 38
Acarelliptus *Keifer* Arach. 22
Acaricalus *Keifer* Arach. 23
Acariosia *Hustache* Ins. 142
Acaronla *Myers* Pisces 43
Acediopsylla *Ewing* Ins. 223
Acentrotus *Kato* Ins. 231
Acerophagoides *Blanchard* Ins. 172
Acidolites *Lang, Smith & Thomas* Coel. 18
Aclytophanes *Turner* Ins. 186
Acolpenteron *Fischthal & Allison* Vermes 68
Actinoplagia *Blanchard* Ins. 217
Acutoplax *Weeding* Moll. 34
Adelioneiva *Fischer* Ins. 171
Adhemarius *Oiticica* Ins. 190
Adiopa *Schaus* Ins. 188
Adlerodea *Hayward* Ins. 185
Adorus *Thorne* Vermes 94
Aegolipton *Gressitt* Ins. 150
Aelurosauroides *Broom* Rept. 32
Aenigmatophyllum for Enygmophyllum, *Lang, Smith & Thomas* Coel. 18
Aetheopsylla *Stewart & Holland* Ins. 223
Aeuryomus *Kessel* Ins. 142 & 260 (Z.R. 1935, p. 253, col. 2: gen. nov. omitted)
Africalpe *Krüger* Ins. 188
Afromecopoda *Uvarov* Ins. 245
Afropolydrosus *Hustache* Ins. 142
Agaedioxenis *Villeneuve* Ins. 217
Aglaspella *Raasch* Arach. 13
Aglaspoides *Raasch* Arach. 13
Agrilacanthus *Théry* Ins. 136
Alasonia *Šírková* Porif. 2
Aletretiopsis *Breuning* Ins. 153
Aliurus *Dunn & Dunn* Rept. 34
Alleidophis *Prado* Rept. 36
Allemerobius *Banks* Ins. 202
Allidiostoma *Arrow* Ins. 140
Allocolpocephalum *Qadri* Ins. 237
Allocryptaspis *Whitley* Pisces 31
Allodapula *Cockerell* Ins. 164
Allolepichthys *Whitley* Pisces 34
Alsataspis *Turner* Trilo. 5
Altipoma *Whitley* Pisces 44
Altrivalvina *Wehrli* Ins. 191
Amblystilbe *Fowler* Pisces 37
Amekeoblatta *Zalessky* Ins. 257
Ameleta *Turner* Ins. 186
Amentum *Whitley* Pisces 36
Ametron *Hayward* Ins. 185
Amicitia *van Emden* Ins. 219
Amphibdelloides *Price* Vermes 69
Amphicontus *Hill* Echin. 13
Amphidelus *Thorne* Vermes 94
Amphinemertes *Coe* Vermes 82
Amplexicarinia for Amplexocarinia *Lang, Smith & Thomas* Coel. 18
Amplexipora for Amplexopora *Lang, Smith & Thomas* Bry. 5
Anacorax *White & Moy-Thomas* Pisces33
Anamastax *Townsend*, Z.R. 1932, p. 374 col. 2 not a gen. nov., Ins. 260
Anamelus *Marshall* Ins. 142
Ananogmius *White & Moy-Thomas* Pisces 36
Anartiocrinus *Kirk* Echin. 14

Anathetis *Janse* Ins. 188
Anchocoema *Mello-Leitão* Ins. 249
Anconodon *Jepsen* Mam. 40
Andersonosia *van Emden* Ins. 219
Anenterotrema *Stunkard* Vermes 71
Aneoscorpius *White & Moy-Thomas* Pisces 45
Anevda *Palmer* Moll. 63
Angulochrysis *Lackey* Prot. 66
Anisometra *John* Echin. 14
Anisomma *White & Moy-Thomas* Pisces 46
Aniulus *Chamberlin* Arach. 32
Annamemys *Bourret* Rept. 32
Annamina *Attems* Arach. 32
Annatiara *Russell* Coel. 9
Anomalonychus *Saylor* Ins. 139
Anomalopterichthys *Whitley* Pisces 37
Anomonyx *Saylor* Ins. 140
Anomyctus *Allen* Vermes 96
Anopsobiella *Attems* Arach. 30
Ansiulus *Takakuwa* Arach. 32
Anticranaus *Mello-Leitão* Arach. 29
Aphlebospongia *Šírková* Porif. 2
Aphonoides *Chopard* Ins. 244
Aphyssura *Hardy* Ins. 218
Apotemnus *Cushman* Ins. 174
Apseudomorpha *Miller* Crust. 20
Apterocrema *Wheeler* Ins. 169
Apterodon *Fisher* Echin. 11
Aptilopsylla *Ewing* Ins. 223
Apyrtula *Edwards* Ins. 203
Arachnelasma for Arachnolesma *Lang, Smith & Thomas* Coel. 19
Arachniophyllum for Arachnophyllum *Lang, Smith & Thomas* Coel. 18
Aragonia *Finlay* Prot. 61
Arambourgia *Kälin* Rept. 39
Araucolimnophila *Alexander* Ins. 209
Archaeagnostus *Kobayashi* Trilo. 6
Archaemioptera *Guthörl* Ins. 258
Archaeonichthys *Whitley* Pisces 35
Archboldia *Rand* Aves 59
Archepyge *Manfredi* Arach. 32
Argoraja *Whitley* Pisces 34
Argyrobdella *Cordero* Vermes 115
Ariptyelus *Matsumura* Ins. 230
Aristiger *Hebard* Ins. 243
Arizonichthys *Nichols* Pisces 41
Arrhythmica *Turner* Ins. 186
Arruda *Mello-Leitão* Arach. 29
Arthrobatis *Whitley* Pisces 34
Asaphides *Želízko* Trilo. 6
Ascetocrinus *Kirk* Echin. 14
Asiatosuchus *Mook* Rept. 39
Asichaerota *Matsumura* Ins. 230
Astenocoptus *Breuning* Ins. 153
Asterobemisia *Trehan* Ins. 233
Astrohippus *Stirton* Mam. 43
Astrosoga *Chamberlin* Arach. 14
Atelophleps *Turner* Ins. 186
Ateucheta *Turner* Ins. 186
Athecocyclina *Cushman* Prot. 61
Atheropsylla *Stewart* Ins. 223
Atopotrophos *Cushman* Ins. 174
Atricholyga *Villeneuve* Ins. 217
Atrophecaecum *Bhalerao* Vermes 72
Aukena *Baker* Moll. 50
Aulacomyrma *Emery* Ins. 170
Aulaconotopsis *Breuning* Ins. 154
Aulacopodus *Britton* Ins. 123
Aulocrania *Uvarov* Ins. 245
Australencyrtus *Johnston & Tiegs* Ins. 172
Australysmus *Kimmins* Ins. 201
Austrictinogomphus *Fraser* Ins. 242
Avga *Nixon* Ins. 177
Aviscutum *Iredale* Moll. 35
Avonaspis *Lochman* Trilo. 6
Awaphora *Matsumura* Ins. 230

Bachiana *Girault* Ins. 172
Badistornis *Wetmore* Aves 44
Baeomorpha *Turner* Ins. 186
Baeophyllum *Hill* Coel. 19
Baibarana *Matsumura* Ins. 230
Bainbridgia *Ball & Grove* Coel. 14
Balanteodrilus *Pickford* Vermes 114
Bananogmius *Whitley* Pisces 36
Barbouria *Lang, Smith & Thomas* Coel. 19
Bario *Myers* Pisces 38
Barrodesmus *Chamberlin* Arach. 32
Barropelma *Chamberlin* Arach. 15
Barroxenus *Chamberlin* Arach. 32
Bartheus *Houlbert* Ins. 125
Bartrumella *Laws* Moll. 43
Bastactister *Reichensperger* Ins. 130
Bathysiredon *Taylor* Amph. 28
Batula *Cresson* Ins. 222
Bellicositermes *Emerson* Ins. 239
Beloderoides *Breuning* Ins. 154
Belondira *Thorne* Vermes 94
Belonochasma *Broili* Rept. 38
Benthesikyme *White & Moy-Thomas* Pisces 37
Berlaia *Mello-Leitão* Arach. 29
Berlandembia *Davis* Ins. 239
Berlesecaptus *Mello-Leitão* Arach. 28
Betaclovia *Matsumura* Ins. 230
Bidentulus *White & Moy-Thomas* Pisces 33
Bidigiticauda *Chitwood* Vermes 97
Bienotherium *Young* Mam. 40
Bionoblatta *Rehn* Ins. 243
Biuterinoides *Ortlepp* Vermes 80
Blandosepia *Iredale* Moll. 63
Blastocerina *Flower* Moll. 64
Blattelicola *Basir* Vermes 97
Blothrocrinus *Kirk* Echin. 14
Bogdana *Mello-Leitão* Arach. 29
Bombylomorpha *Borgmeier* Ins. 212
Borania *Ricci* Vermes 97
Borestus *Thomas* Moll. 35

Brachiopterna *Munro* Ins. 221
Brachyelasma *Lang, Smith & Thomas* Coel. 19
Brachyscleroma *Cushman* Ins. 174
Brachysybra *Breuning* Ins. 154
Brasilacris *Rehn* Ins. 247
Brasilophora *Bücherl* Arach. 30
Brasiloscutigera *Bücherl* Arach. 31
Brassicicephalus *Lochman* Trilo. 7
Brevicerus *Fleutiaux* Ins. 135
Bruchnops *Mello-Leitão* Arach. 15
Bryantaspis *White & Moy-Thomas* Pisces 31
Bryx *Herald* Pisces 41
Bulbocerca *Ross* Ins. 239
Buotus *Chamberlin* Arach. 32

Cabotichthys *Whitley* Pisces 44
Caenagnathus *Sternberg* Aves 40
Caenoconops *Kröber* Ins. 216 & 263 (Z.R. 1939, p. 365 col. 1 : gen. nov. omitted)
Caenoptilon *Zalessky* Ins. 257
Calacarus *Keifer* Arach. 23
Calamippa *Henry* Ins. 247
Calamonastides *Grant & M.-Praed* Aves 51
Caliulus *Chamberlin* Arach. 32
Callidiellum *Linsley* Ins. 150
Calligraphidia *Gaede* Ins. 188
Calliphonides *Bolívar* Ins. 245
Callosiconops *Kröber* Ins. 216
Calonia *Beamer* Ins. 231
Campyloneura *Lengersdorf* Ins. 203
Campylostoma *Dreyfuss* Echin. 17
Canariola *Uvarov* Ins. 245
Cannipora for Cannapora *Lang, Smith & Thomas* Coel. 14
Cantorusia *Whitley* Pisces 46
Capetus *Steen* Amph. 27
Carassotrema *Manter* Vermes 72
Carcharolaimus *Thorne* Vermes 94
Cardimia *Mello-Leitão* Arach. 18
Cardiobioramix *Kaszab* Ins. 136
Cardiochianalus *Kaszab* Ins. 137
Carlukeus *Whitley* Pisces 47
Carolinites *Kobayashi* Trilo. 7
Caroloptes *Keifer* Arach. 23
Cartericella *Fletcher* Ins. 195
Cassandra *White & Moy-Thomas* Pisces37
Catana *Chapin* Ins. 131
Cautotriphora *Laws* Moll. 40
Cechenotribax *Semenov-Tian-Shanskiĭ & Znouko* Ins. 123
Cedarina *Lochman* Trilo. 7
Celechopora *Pradáčová* Coel. 14
Cenagnostus *Howell* in *Whittard* Trilo. 7
Centruroides *Breuning* Ins. 154
Cephaliscus *Whitley* Pisces 35
Ceratoblastus *Wanner* Echin. 17
Ceratolepíchthys *Whitley* Pisces 34
Cercodinotomus *Uchida* Ins. 175
Ceriophyllum for Keriophyllum *Lang, Smith & Thomas* Coel. 19
Cervicola *Kéler* Ins. 237
Cestocrinus *Kirk* Echin. 14
Cetophyllum for Ketophyllum *Lang, Smith & Thomas* Coel. 19
Chaetoandinomyia *Vimmer & Soukop* Ins. 217
Chaetoderus *Portevin* Ins. 130
Chaetoleucopis *Frey* Ins. 220
Chaetolixophaga *Blanchard* Ins. 217
Chapacris *Tinkham* Ins. 247
Chasmatoporella *Nekhoroshev* Bry. 4
Chatanayus *Fleutiaux* Ins. 135
Chaunopelma *Chamberlin* Arach. 15
Cheilodipterops *Schultz* Pisces 42
Chelicerca *Ross* Ins. 239
Chelonebarus *Marshall* Ins. 143
Chelyoposuchus *Kuhn* Rept. 34
Chenbergus *Navás* Ins. 175
Chesotraxus *Fleutiaux* Ins. 135
Chetabraeus *Portevin* Ins. 130
Chiagosnius *Fleutiaux* Ins. 135
Chirembia *Davis* Ins. 239
Chloeichthys *Whitley* Pisces 44
Choanodera *Manter* Vermes 72
Choristogonoporus *Stunkard* Vermes 72
Chraspedops *Raasch* Arach. 13
Chrotichthys *Wade* Pisces 35
Chrysidiomyia *Kröber* Ins. 216
Chubutia *Mello-Leitão* Arach. 15
Cicurata *Chamberlin & Ivie* Arach. 15
Cicurella *Chamberlin & Ivie* Arach. 15
Cicurona *Chamberlin & Ivie* Arach. 16
Cicurusta *Chamberlin & Ivie* Arach. 16
Ciocotalpa *Saylor* Ins. 142
Cionelesma for Kionelesma *Lang, Smith & Thomas* Coel. 20
Cionophyllum for Kionophyllum *Lang, Smith & Thomas* Coel. 20
Cladiospsocus *Roesler* Ins. 238
Clastichthys *Whitley* Pisces 35
Clavopelma *Chamberlin* Arach. 15
Cleomenella *Fisher* Ins. 150
Clinoides *Gilchrist & Thompson* Pisces 45
Clisiaxophyllum for Clisaxophyllum *Lang, Smith & Thomas* Coel. 20
Cluzobra *Edwards* Ins. 203
Clysiana *Fletcher* Ins. 195
Cnemidothrips *Priesner* Ins. 235
Coccidaphycus *Blanchard* Ins. 172
Coccocephalichthys *Whitley* Pisces 35
Cocconiscus *White & Moy-Thomas* Pisces 35
Cociella *Whitley* Pisces 46
Codiulus *Chamberlin* Arach. 33
Codonophyllum for Kodonophyllum *Lang, Smith & Thomas* Coel. 20
Coelosteichthys *Whitley* Pisces 35
Colobichthys *Whitley* Pisces 35

Cololeskia *Villeneuve* Ins. 217
Coloptilia *Fletcher* Ins. 196
Conandrena *Viereck* Ins. 164
Coniocara *Henry* Ins. 247
Conocalama *Hopper* Ins. 175
Conotrochammina *Finlay* Prot. 61
Cophomantella *Fletcher* Ins. 196
Copramoeba *Lobeck* Prot. 60
Coptopleura *Ikeda* Echin. 9
Cordobulgida *Mello-Leitão* Arach. 27
Coresthetopsis *Breuning* Ins. 154
Cornaspis *Whitley* Pisces 35
Cornucopula *Rankin* Vermes 73
Corrugatagnostus *Kobayashi* Trilo. 9
Coryellites *Kellett* Crust. 27
Corynadenia *Berry* Moll. 53
Corypholophus *Attems* Arach. 33
Coscinoecia *Canu & Lecointre* Bry. 4
Cosmobaris *Casey* Ins. 145
Costachorema *McFarlane* Ins. 199
Coxopleurotostigmus *Bücherl* Arach. 31
Crawforda *Caldwell* Ins. 232
Cremnotekla *Whitley* Pisces 45
Crocochiton *Cotton & Weeding* Moll. 34
Crossothrombium *Womersley* Arach. 23
Crozetulus *Hickman* Arach. 18
Cryptarchaeodinium *Deflandre* Prot. 66
Ctenichthys *Rivero* Pisces 45
Ctenopomichthys *Whitley* Pisces 45
Ctenorangoon *Verhoeff* Arach. 33
Cubilioides *Breuning* Ins. 154
Curimatoides *Fowler* Pisces 38
Cyclopina *Raasch* Arach. 14
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Rhopalelasma for Rhopalolasma *Lang, Smith & Thomas* Coel. 27
Rhopaloceracris *Tinkham* Ins. 249
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Saiulus *Chamberlin* Arach. 34
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Saurischiocomes *Kuhn* Rept. 32
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Saussurembia *Davis* Ins. 240
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Scabriculocypris *Anderson* Crust. 28
Scaloposuchus *Broom* Rept. 62
Schistotoechelasma for Schistotoecholasma *Lang, Smith & Thomas* Coel. 27
Schuchertellopsis *Maillieux* Brach. 7
Scoliophyllum for Skoliophyllum *Lang, Smith & Thomas* Coel. 27
Scoliopora *Lang, Smith & Thomas* Coel. 17
Scopioricus *Uvarov* Ins. 246
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Scylacocephalus *Broom* Rept. 33
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Seeleyosaurus *White* Rept. 34
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Senckenbergia *Yen* Moll. 40
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Soridopsis *Breuning* Ins. 160
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Specaria *Sperber* Vermes 115
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Stenideopsis *Breuning* Ins. 160
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Stratiphyllum for Stratophyllum *Lang, Smith & Thomas* Coel. 17
Striodostomia *Laws* Moll. 43
Strobilelasma for Strobilasma *Lang, Smith & Thomas* Coel. 27
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Sublonsdaleia for Sublonsdalia *Lang, Smith & Thomas* Coel. 28
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Tadascarta *Matsumura* Ins. 231
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Taeniostolella *Fletcher* Ins. 197
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Trentonius *Betten & Mosely* Ins. 201
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